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SIXTY-SEVENTH

ANNUAL

CIRCULAR AND CATALOGUE

OF

UNION COLLEGE.

THIRD TERM, 1861.

NEW YORK:

HOSFORD & KETCHAM, STATIONERS AND PRINTERS,
57 and 59 William Street.

1861.

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And Professor of Mental and Moral Philosophy.

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ISAAC W. JACKSON, LL.D.,

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Tutor and Registrar.

CALENDAR--1861-62.

THIRD TERM BEGAN. .....Friday, April 26, 1861.

THIRD TERM ENDS..... " July 19, "

PHI BETA KAPPA DAY.....Tuesday, " 23, "

GRADUATES' DAY..... ...Wednesday, " 24, "

COMMENCEMENT..... .....Thursday, " 25, "

FIRST TERM BEGINS.....Friday, Sept. 6, "

" " ENDS..... " Nov. 29, "

SECOND TERM BEGINS..... " Jan. 3, 1862.

" " ENDS..... " March 28, "

THIRD TERM BEGINS..... " April 25, "

" " ENDS..... " July 18, "

PHI BETA KAPPA DAY.....Tuesday, " 22, "

GRADUATES' DAY.....Wednesday, " 23, "

COMMENCEMENT.....Thursday, " 24, "

INFORMATION.

I. COURSES OF STUDY.

There are three Courses of Study established in the institution — the Classical, the Scientific, and the University or Partial Course. A three years' course for Graduates is also in preparation.

The Classical course is the usual Baccalaureate course of the College, and remains unchanged, and the degrees conferred remain the same as is customary in American colleges.

In the Scientific course the modern languages are substituted in place of the ancient languages, and the amount of mathematical studies is increased. The degrees conferred remain unchanged; but the diploma given is in French.

In the Partial or University course, students select such studies as they please, and receive a certificate indicating their proficiency in those which they have pursued. This is in English.

There are also special courses of instruction in Civil Engineering and in Analytical Chemistry.

II. REQUIREMENTS FOR ADMISSION.

Candidates for admission must present testimonials of good moral character, and if from another college, a letter of honorable dismission or of special request. Sixteen years of age are requisite for admission; the candidate enters, however, any class for which he is qualified. As good moral deportment, as well as certain acquirements in literature, is necessary to a standing in this institution, candidates for admission will be put on probation, during which they will recite with their class, and enjoy there all the privileges of members in full standing. When sufficient time has elapsed, if their conduct be such as to warrant it, the president will sign a certificate of their admission.

Candidates for admission, if not previously vaccinated, will be required to become so before their admission.

Candidates for the Freshman Class, in the *Classical* course, must be *thoroughly* prepared in English Grammar; Arithmetic (Davies' "University," or an equivalent); Andrews & Stoddard's Latin Grammar; Cæsar's Commentaries, four books; Virgil's Æneid, six books, with the rules of Hexameter Verse; four Orations of Cicero; Sallust's Catiline; Bullions' Greek Grammar and Greek Reader. The whole, or a full equivalent, in both quantity and quality, will be strictly required. It is desirable that those intending to pursue the Classical course should enter at the commencement of the Freshman year.*

Candidates for the *Scientific* course may prosecute the studies of the Freshman year in the Union School connected with the College, or with any competent teacher; and will be examined for admission to the Sophomore year on English Grammar, Practical Arithmetic (Davies' "University"); Algebra, to *n*th root; Geometry, five books, and United States History.

Candidates for any other class will also be examined in all the studies previously pursued by said class, as shown in the following course of studies.

It is very important that candidates should be thoroughly prepared, especially in grammatical and elementary knowledge. Where they have more time than is requisite for such preparation, it is desirable, for obvious reasons, that they should not anticipate subjects in the College course, but apply themselves to other studies.

Students from other colleges cannot enter later than the beginning of the third term of the Senior year.

Students not candidates for a degree are examined only sufficiently to test their qualifications to pursue with advantage the course of study which they have in view.

Examinations for admission take place in presence of three officers. The regular times for such examinations are the last two days of the week preceding Commencement, and the last two days of each vacation, (viz: Thursday and Friday), at 10 o'clock A. M.

* Teachers preparing students to enter College, are requested to notice that the above requirements for admission are more precisely specified than heretofore, and having been reduced to the minimum quantity, a full compliance with them will hereafter be expected.

III. DEPARTMENTS OF INSTRUCTION.

1. THE GREEK LANGUAGE AND LITERATURE.

The course of instruction in this department extends regularly through the whole of the Freshman and Sophomore years, together with the first and third terms of the Junior. In the Senior, the subject is made a regular study during one term, and in another, some Greek author is read as a voluntary exercise, when time and circumstances permit. Lectures form the greater part of the instruction in the latter part of the course. There is a gradation of aims. The Freshman year is employed almost wholly in thorough grammatical drilling. In the Sophomore year the chief object is correct and elegant translation, in which much attention is paid to what may be called the laws of correct expression, or the transfer of idiom into idiom. A constant demand is, the best English for the best Greek. Thus progress is made in the knowledge of the capacities of our own tongue, whilst the power of the ancient language is shown in a way which can never be exhibited in the un-english verbal renderings that are so commonly permitted. In the Junior year, the same object is pursued, but more attention is given to the philosophy or poetry of the classic author, as a matter of general criticism. In the time devoted to Greek in the Senior year, the latter aim is made predominant.

By steadily pursing this course, there is found to be a manifest improvement in each succeeding class. The standard of preparation is gradually raised, the valuable educational influence of the classics is secured for the whole class, whilst great pains are taken, especially in the latter part of the course, to arouse the enthusiasm of that smaller portion who may be expected to make the ancient languages and literature a special study in after life.

The reading of the Freshman year is confined mainly to Xenophon and Homer. The Sophomore year and part of the Junior, are found from good experience, to be most profitably occupied with the Greek Dramatic Poetry, whilst in the remainder of the course the Greek Philosophy is made the chief object of attention. One idea is never

lost sight of. It is the bearing of the ancient philosophy, poetry, and mythology, upon Revelation and the Christian theology. Especially in the Junior and Senior years, is this made a prominent thought, presented not only in lectures, but in constantly calling attention to every thing by which it may be legitimately suggested.

The course of reading is frequently varied from that which is presented in the Catalogue, although the same general amount is required and the same general plan is pursued. As the instruction is in a high degree oral, bare text-books are preferred to editions with notes, although no objection is made to such helps when they can be obtained.

2. LATIN LANGUAGE AND LITERATURE.

The studies of this department embrace a select series of the Latin classics, accompanied by miscellaneous exercises, extending through the Freshman and Sophomore years, and one term of the Junior year, and arranged as indicated on pages twenty and twenty-two; though other authors are often read.

The attention of candidates for admission is directed specially to the necessity of previous thorough grammatical drilling. The chief aim of the instruction here is not to teach the mere forms of words and rules of Syntax, but to impart a knowledge of the derivations and affinities of the Latin language, its peculiarities of idiom, its equivalent constructions, its synonymous words, the force and beauty of its particles; and, collaterally, of the leading features of Roman literature, history and philosophy. Instruction in these is given by informal lectures, composed of explanations and questions by the Professor, to be responded to by the student, as it is found that this course best secures the requisite amount of reading and investigation.

As books for reading and reference, Zumpt's, and Andrews and Stoddard's Latin Grammars; Schmitz's and Arnold's Histories of Rome; Smith's Dictionary of Greek and Roman Antiquities; Anthon's Classical Dictionary, and Findlay's Classical Atlas, or their equivalents, are deemed indispensable.

3. MODERN LANGUAGES.

The course of instruction in the modern languages includes thorough grammatical drilling and oral and written exercises in translation and composition, followed by the study of the grammars of the respective tongues in the original, and lectures on their literatures.

The course is thus divided:

The German Language is taught as a regular daily study of the Scientific course during three successive terms, beginning with the First Term Junior. The text books used are Peissner's "Grammar, Exercises and Reading Lessons;" Dr. Heyse's *Leitfaden der deutschen Sprache*, and Peissner's "Course of German Literature."

The French Language is made a regular daily study of the Scientific course during two successive terms, beginning with the First Term Sophomore. The text books used are Peissner's "Elements of the Romance Languages, French, Italian, Spanish;" and Louis Pujol's "*Complete French Class Book.*" A voluntary class (advanced) is formed in the following term, in which *Corneille*, *Racine*, *Molière*, or other classics, are read.

The Spanish Language is a voluntary study in the Second Term Senior. The text books used are Peissner's "Romance Languages," and Salva's *Grammatica Castellana*. An advanced class may pursue this study another term, Velasquez's Reader being the text book.

The Italian Language is taught as a voluntary study in the Third Term Sophomore. The text books are Peissner's "Romance Languages," and Rio's *Lingua Italiana*. An advanced class may pursue the study of Italian another term, Foresti's Reader, or some Italian classic, being the text book.

The hours for the recitations in the modern languages are so arranged that they may be taken by regular classical students.

4. MATHEMATICS AND ASTRONOMY.

The studies of this department are arranged as follows:

FRESHMAN YEAR.

First Term.—Algebra, to square root.—(Bourdon.)
Second Term.—Algebra, to *n*th root.—(Bourdon.)
Third Term.—Geometry—Plane; five books.—(Legendre.)

SOPHOMORE YEAR.

First Term.—Geometry—Solid; four books.—(Legendre.)
Second Term.—Algebra, completed.—(Bourdon.)
Third Term.—Trigonometry—Plane and Spherical.—(Jackson.)
Descriptive Geometry.—(Heather's Monge.)

JUNIOR YEAR.

First Term.—Conic Sections.—(Jackson.)
Analytical Geometry.—(Davies.)
Second Term.—Differential and Integral Calculus.—(Davies.)
Third Term.—Analytical Mechanics.—(Boucharlat.)

SENIOR YEAR.

Second Term.—Astronomy.—(Gummere.)

5. CIVIL ENGINEERING.

This department was founded in 1845. Its object is to give its students such instruction in the theory and practice of Civil Engineering, as to qualify them for immediate usefulness in the field and office in a subordinate capacity, and at the same time to fit them to fill satisfactorily the higher positions in the profession after a moderate amount of experience in the routine of practice. The course of instruction aims to effect this by constant exercise in mechanical draughting, instrumental field work and numerical calculation, combined with the study of text books, and lectures on the numerous subjects where books are wanting. Its facilities have recently been

greatly increased by the acquisition of numerous models and instruments from the best European sources.*

The Civil Engineering course can be taken by persons wishing to pursue it specially, by their entering as "University students," taking such collateral regular College studies as may be desirable. It is completed in two years, beginning with the Summer term, or College "Third term," about May 1st, and ending the last week in March, in time for its students to join parties then beginning the field work of the season. The fees are, for the present, the same as those of the ordinary College course.

For commencing the Civil Engineering Course, (May 1st,) the requirements are Arithmetic, Algebra, Geometry, (plane and solid,) and the execution and demonstration of the first seventy problems of Mahan's "Industrial Drawing." These last are taught with additions, in the preceding term, to those then present, both "Regular Scientific students" and prospective "Engineering students." Readiness in the common operations of Arithmetic, (particularly mental calculation, cancellation and decimals,) and perfect familiarity with the elements of Algebra and Geometry, are indispensable preliminaries for commencing the course with advantage. Previous practice in writing rapidly from dictation, and in making abstracts of lectures is very desirable. Any portions of the course may be taken separately by those qualified to pursue them profitably.

The subjects of the course are arranged in the order given below, so as to harmonize them with the Terms of College, and the seasons of the year suitable to field work or otherwise. The course is also so arranged and subdivided, that the more popular topics and the more specially technical ones come at different times: so that those students who desire merely a general knowledge of Civil Engineering as a part of a liberal education, and those who wish to study it professionally, can each be suitably accommodated. The instruction is also given at different hours from those of the regular recitations, so as to prevent any interference, and to enable its special students to pursue collaterally such of the regular studies as they are found to require.

* Among them are these: a complete set (fifty) of the beautiful *Olivier* models of Descriptive Geometry, showing the generations, transformations and intersections of "Rule-surfaces;" the best stone-cutting models (twenty) of *L'Ecole Polytechnique;* the Topographical models of M. Bardin; his "Skew-arch" models; Mr. Doyne's dynanometer Bridge-strain model; the levels of Egault, Troughton, &c.

FIRST YEAR.

Summer Term.—Land Surveying; (Gillespie, Parts 1, 2, 3,) with field work, plats and calculations.
Descriptive Geometry.—(Heather's Monge.)
Trigonometry; Plane and Spherical.—(Jackson.)

Fall Term.——Surveying, continued; and Levelling.—(Gillespie.)
Draughting, by Plans, Elevations and Sections, or Perpendicular Projection.—(Mahan.)
Analytical Geometry.—(Davies.)

Winter Term.——Draughting; continued.
Mensuration of Engineering Structures, &c.
Statics and Dynamics.—(Jackson.)
Differential and Integral Calculus.—(Davies.)

SECOND YEAR.

Summer Term.—Higher Surveying.
Engineering Statics. The Strength of Materials.
Draughting; continued.
Hydraulics, Pneumatics, Heat, &c.—(Jackson.)
Analytical Mechanics.—(Boucharlat.)

Fall Term.——Road Engineering; with field practice, calculation of Earth work, &c.—(Gillespie.)
Engineering Statics. The Stability of Structures.
Stereotomy; Applications of Descriptive Geometry to Stone cutting, &c.

Winter Term.——General Construction; Materials, Foundations, Masonry, Carpentry, &c.—(Mahan.)
Bridge Engineering; Plans and calculations of the Forms and Dimensions of Bridges of Wood, Iron, and Stone.
Water Engineering; Canals, Water Supply, Drainage, River and Sea Coast Improvements, &c.
Geodesy; and Practical Astronomy.

The recent extension of this Course demands so much time and study from those who take it, that students of the complete College "Scientific Course" *cannot* pursue both at the same time. They can, however, with extra labor, combine the two by making them "overlap," distributing the extra studies of the first four terms of the above course over the last seven terms of the regular course, and then completing the C. E. course in two terms after graduating. Their extra studies would then be taken in this order: *Sophomore 3d term*, Descriptive Geometry; *Junior 1st term*, Draughting; *Junior 2d term*, The Calculus and Draughting; *Junior 3d term*, Analytical Mechanics and Draughting; *Senior 1st term*, Surveying (continued) and Levelling; *Senior 2d term*, Engineering Mensuration; *Senior 3d term*, Higher Surveying and Engineering Statics; and in the two terms after graduating, the subjects noted in the last two terms above.

Students of only the special Engineering Course are earnestly advised, if their bodily and mental strength will permit, to combine with it the modern languages and the physical science of the Regular Course, including more or less Chemical practice in the Analytical Laboratory. But if their time will allow, their best plan is to enter as "Regular Scientific students," and to pursue the complete course indicated in the preceding paragraph.

At the beginning of the last term of the course, students who are candidates for a diploma are required to undergo a written examination on the leading points of all their preceding studies. Those who pass it satisfactorily and complete similarly the remainder of the course, receive a diploma of "Graduate in Civil Engineering," and it is intended that this diploma shall be a guarantee of more than average ability and industry. The others receive certificates proportioned to what they have done, both as to quantity and quality.

Graduates in this course, who may choose to continue their studies another term, will receive directions and supervision from the Professor without fee, and can employ their time with great profit in the continuation and development of various useful subjects of investigation.

Military Engineering, embracing Reconnaissance, Fortification, &c., is taught in connection with the course of Civil Engineering.

6. NATURAL PHILOSOPHY.

The instruction in this department extends through three terms, commencing with the second term of the Junior year. Students, both of the Classical and Scientific course, and those in the Engineering department, recite in two divisions, one hour being given to each, five days in the week, and the subjects succeeding each other in the following order:

JUNIOR YEAR.

Second Term.—Statics and Dynamics.—(Jackson.)

Third Term.—Hydrostatics, Hydrodynamics, Pneumatics, Heat, Steam.—(Jackson.)

SENIOR YEAR.

First Term.—Optics.—(Jackson.)

Sound, Electricity, Magnetism, Galvanism, Electro-Magnetism.—(Foster.)

To secure at once precision and fullness, the instruction is mainly given from recently prepared text books. Frequent lectures are however delivered, either to furnish illustrations and proof of principles by experiment, or to amplify particular subjects. Thus, after the completion of Statics and Dynamics, several lectures are devoted to mechanical "Work," in order that not only the construction and theory, but modes of determining the *efficiency* of the various hydraulic and pneumatic machines may be understood. All lectures are required to be written out by the students in full from the notes, and submitted for inspection. Numerous problems are also given on all the subjects, and are mostly so constructed that the calculated results may be verified by experiments before the class. Both to test the accuracy of the knowledge gained, and to ensure its ready command, several written examinations are required in each term, usually near its close.

A class of those wishing further knowledge of Mechanism and of Mechanical Work, read (in the original) the *Mécanique Appliquée* of Sonnet. To learn the application of the Differential and Integral Calculus to Mechanics, the students of the Scientific and Engineering courses recite daily, during the Third Term Senior, select portions of Boncharlat's Mechanics.

In most of the branches included in this department the apparatus is sufficient for very complete experimental illustrations.

7. CHEMISTRY.

In the *Undergraduates'* department the instruction in Chemistry continues through the Senior year. It is arranged as follows:

First Term.—Lectures and Recitations on the Non-Metallic Elements. *Second Term.*—Lectures and Recitations on the Metallic Elements. *Third Term.*—Lectures on Organic and Agricultural Chemistry.

The Nott *Laboratory* is open for special students, in all branches of Chemistry; particularly students of Agriculture, Medical students, Pharmaceutists, Manufacturing Chemists, Mineralogists, students of Medical Jurisprudence, etc.

Students who desire to devote but a portion of their time to Chemistry, can pursue at the same time other studies in the collegiate courses. No previous knowledge of the science is required, though highly desirable.

The plan of study depends upon the object of the student, his previous knowledge, and the time at his disposal. It is designed, however, to give a complete professional education in Chemistry to such as may desire it.

A complete course, lasting two years, is arranged thus:

First Term.—Qualitative Analysis; comprising general testing, detection of poisons, and Blowpipe Analysis. *Second Term.*—Chemical Preparations. *Third Term.*—Quantitative Analysis. *Fourth Term.*—Quantitative Analysis (continued,) Volumetric Analysis, and Assaying of Ores. *Fifth Term.*—Organic Chemistry. *Sixth Term.*—Agricultural and Medical Chemistry.

The Laboratory will be open to its special students every day in the week, except Saturday, from 9 A. M. to 5 P. M.

Charge for full course, $35 per term; for half-day course, $25 per term; for qualitative course (exclusively for undergraduates,) $12 per term.

Students cannot enter the Laboratory for less than one term.

Students are not required to purchase the apparatus which they use, but are charged for what they consume and injure. There is no charge for chemicals, except for gold, silver and platinum solutions, and alcohol. The above extras amount to from $2 to $10 per term.

For fuller circulars of this department, address Dr. C. F. Chandler.

8. NATURAL HISTORY.

Mineralogy is taught during the Summer Term by a daily course of lectures and practical lessons.

The facilities for instruction in this department have recently been largely increased by the addition to the College Cabinet of the Wheatley *Collection of Minerals and Shells*, purchased by Edward C. Delavan, Esq., for ten thousand dollars, and by him presented to the College. About three thousand of its specimens have been systematically arranged and labelled for the purpose of instruction, and form a collection which stands among the first in the country in value and interest. In addition, a suite of the ores of the useful metals, comprising about a thousand specimens, has been arranged to illustrate their mode of occurrence and geographical distribution. The College is also in possession of a valuable series of specimens, representing the rocks of the State of New York, and some of the most important fossils. The Cabinet of recent Shells, which forms a part of the Wheatley collection, comprises about five thousand species; among which the land and fresh water genera are peculiarly well represented.

Botany is taught during the Summer Term, both from text book (Gray's) and practically in the field.

9. RHETORIC AND CRITICISM.

In this department there are daily recitations during the Third Term Sophomore and First and Second Terms Junior. One day in each week is devoted to the delivery of original declamations. At each recitation two or more essays are required to be read. Attention is given to the practical application of the rules taught, and the students are frequently exercised in the correction of passages which violate the principles of their daily study. Lectures on various subjects connected with this department are also occasionally delivered.

In the First and Second Terms of the Senior year, Kames' "Elements of Criticism" is made the basis of lectures by the President. His lectures are continued in the Third Term Senior.

10. POLITICAL ECONOMY.

A course of *Lectures* on this subject will be delivered in the Third Term of the Senior year.

11. MENTAL AND MORAL SCIENCE.

The order of instruction pursued in these studies is given in the text books used; but a wide margin is filled in by Lectures, and oral comments, explanations and illustrations. The end sought to be secured is a systematic and not merely elementary or fragmentary apprehension of the subject in hand, each part having its relation to a whole, and its connection and place in the whole being necessary to be apprehended in order to any adequate knowledge of the fact itself. The student is not only examined from the text book, but leading questions are put as the lesson proceeds, designed to bring out his own powers, and to awaken individual thought and independent reflection. The class are all required to write on themes furnished in the order of the course, and given out by the teacher to separate divisions successively. It is made the design of this composition to secure correct and clear thought, expressed distinctly and definitely, and to keep the attention precisely to the point while giving completeness to the whole discussion, with less regard in this exercise to rhetorical embellishment. Other authors are referred to as desirable for the student to read as opportunity may be afforded, and his attention is directed to such as treat on the same or collateral topics. Different views and theories are noticed and examined as the course proceeds, and the whole ground of investigation on the topic in hand, is laid open before the class as completely as may be. The constant aim is to cultivate the habit of manly and independent though careful and patient reflection.

Mental Philosophy (Hickok's) is commenced in the Third Term of the Junior year, and concluded in the First Term Senior. Moral Philosophy (Hickok's) is commenced in the same term and concluded in the next.

A synoptical view of the preceding departments of instruction will be found on the four following pages.

COURSE OF STUDIES.

CLASSICAL COURSE.

FRESHMAN CLASS.

FIRST TERM.

Livy—Three Books.....*Lincoln.*
Xenophon's Anabasis—Two Books.....*Owen.*
Algebra (to square root).....*Bourdon.*

SECOND TERM.

Horace—Three Books of Odes, Prosody.....*Lincoln.*
Xenophon—Memorabilia.
Algebra (to *n*th root).....*Bourdon.*

THIRD TERM.

Cicero de Officiis—Two Books.....*Thatcher.*
Homer—Iliad—Four Books.....*Owen.*
Geometry—Plane—Five Books.....*Legendre.*
Throughout Freshman year, Exercises in Latin and Greek Composition.....*Arnold.*

SOPHOMORE CLASS.

FIRST TERM.

Tacitus—History—Two Books; or, Germania and Agricola.
Homer—Odyssey—Six Books.....*Owen.*
Geometry—Solid—Four Books.....*Legendre.*

SECOND TERM.

Juvenal (1st, 3d and 10th) and Terence (one.)
Euripides—One or Two Dramas.
Algebra (completed).....*Bourdon.*

THIRD TERM.

Rhetoric, Composition and Declamation.....*Blair.*
Sophocles—Two Dramas.
Trigonometry—Plane and Spherical.....*Jackson.*
Horace—Satires and Epistles.—(Voluntary.)
Throughout Sophomore year, Exercises in translating Greek into Latin.

COURSE OF STUDIES.

SCIENTIFIC COURSE.

Candidates for the regular Scientific Course may prosecute the studies of the Freshman year in the "Union School" connected with the College, or with any competent teacher, and for admission to the Sophomore year will be examined on English Grammar, Practical Arithmetic (Davies' "University,") Algebra (to *n*th root,) Geometry (five books,) and United States History.

SOPHOMORE CLASS.

FIRST TERM.

French (Grammar).....*Peissner, & Pujol.*
History.....*Guizot.*
Geometry—Solid—Four Books.....*Legendre.*

SECOND TERM.

French (Reader).....*Pujol.*
Geometrical Draughting.....*Mahan.*
Algebra (completed).....*Bourdon.*

THIRD TERM.

Rhetoric, Composition and Declamation.....*Blair.*
Land Surveying, (Parts 1, 2, 3,).....*Gillespie.*
Trigonometry—Plane and Spherical.....*Jackson.*
Descriptive Geometry.—(Voluntary).....*Heather's Monge.*
French—(Voluntary) *Moliere* or *Racine.* Italian—(Voluntary).....*Peissner, & Rio.*
Botany—(Voluntary).....*Gray.*

CLASSICAL COURSE.

JUNIOR CLASS.

FIRST TERM.

Æschylus—Two Dramas.
Rhetoric, Composition and Declamation (continued)..... ...*Blair.*
Conic Sections, *Jackson;* or, Analytical Geometry.....*Davies.*

SECOND TERM.

Cicero—Tusculans—Three Books.
Rhetoric (continued.)—*Lectures.*
Statics and Dynamics..... .....*Jackson.*

THIRD TERM.

Mental Philosophy and Logic..... ....*Hickok.*
Plato—Phædon, or Gorgias.
Hydrostatics, Hydrodynamics, Pneumatics, Heat, Steam.....*Jackson.*

SENIOR CLASS.

FIRST TERM.

Optics.....*Jackson.*
Sound, Electricity, Magnetism, Galvanism, Electro-Magnetism.....*Foster.*
Mental Philosophy, (concluded) and Moral Philosophy (commenced).....*Hickok.*
Criticism.....*Kames.*
Chemistry..... *Fownes.*
Plato contra Atheos—(Voluntary).....*Lewis.*

SECOND TERM.

Astronomy..... .....*Gummere.*
Aristophanes—Birds or Clouds..... ... .*Felton.*
Moral Philosophy (concluded).....*Hickok.*
Criticism (concluded)..... .....*Kames.*
Chemistry ....*Fownes.*

THIRD TERM.

National and Constitutional Law..... .....*Kent.*
Anatomy and Physiology.—*Lectures.*
Lectures on Literature, Chemistry (Organic and Agricultural), Political Economy, Architecture, &c.

SCIENTIFIC COURSE.

JUNIOR CLASS.

FIRST TERM.

German (Grammar)..... ....*Peissner.*
Rhetoric, Composition and Declamation (continued).....*Blair.*
Conic Sections, *Jackson;* or, Analytical Geometry..... ....*Davies.*
Draughting (continued.)—(Voluntary.) .....*Mahan.*

SECOND TERM.

German (Reader).....*Peissner, & Heyse.*
Rhetoric (continued)—*Lectures.*
Statics and Dynamics.....*Jackson.*
Differential and Integral Calculus.—(Voluntary).....*Davies.*
Draughting (continued.)—(Vol'y.)—*Lectures.* Applied Mechanics.—(Vol'y).....*Sonnet.*

THIRD TERM.

Mental Philosophy and Logic .....*Hickok.*
German (Literature).... . .....*Peissner.*
Hydrostatics, Hydrodynamics, Pneumatics, Heat, Steam.....*Jackson.*
Analytical Mechanics.—(Vol'y) *Boucharlat.* Applied Mech's.—(Vol'y).....*Lectures.*
Draughting (continued.)—(Voluntary)..... . .....*Mahan.*

SENIOR CLASS.

FIRST TERM.

Optics.....*Jackson.*
Sound, Electricity, Magnetism, Galvanism, Electro-Magnetism..... .....*Foster.*
Mental Philosophy (concluded,) and Moral Philosophy, (commenced).....*Hickok.*
Criticism.....*Kames.*
Chemistry, (Non-Metallic elements).....*Fownes.*
Surveying (continued) and Levelling (Voluntary).....*Gillespie.*

SECOND TERM.

Astronomy..... .....*Gummere.*
Moral Philosophy, (concluded) .....*Hickok.*
Criticism, (concluded)..... .....*Kames.*
Chemistry, (Metals) ....*Fownes.*
Spanish—(Voluntary).....*Peissner, & Salva.*
Engineering, Mensuration, etc.—(Voluntary)—*Lectures.*

THIRD TERM.

National and Constitutional Law.....*Kent.*
Anatomy and Physiology.—*Lectures.*
Lectures on Literature, Chemistry, (Organic and Agricultural,) Mineralogy, Political Economy, Architecture, &c.
Higher Surveying and Engineering Statics.—(Voluntary.)—*Lectures.*

☞ A complete list of the studies of the Civil Engineering Course (which continues two terms longer) is given on page 14.

IV. MISCELLANEOUS INFORMATION.

1. Payments and Expenses.—The College bills must be paid at the beginning of each term. In all cases where such payment is not made, the proper officer is instructed to inform parents and guardians. Students, unless from another college, pay for entrance into the Freshman class, $5; into the Sophomore class, $7; into the Junior class, $9; into the Senior class, $12. No retrospective expense is incurred by entering in advance.

The College bills for Tuition, Room rent, &c., are $20 per term. When the College rooms are filled, $3 per term is deducted from the bills of the students who are thereby obliged to room elsewhere; otherwise no deduction is made. Board can be had at the Hall for $1 75 to $2 00 per week, according to the price of provisions. Fuel and lights about $10 per year. Washing, $3 per term. Furniture can be bought and re-sold on leaving, or hired of the College servants.

Young men in straitened circumstances and of good character, on presenting certificates to that effect, are assisted more or less by the Trustees of the College, as long as they study and conduct in a satisfactory manner. The whole expense for tuition, board, fuel, lights, etc., of students so assisted, will not, where economy is used, exceed from $120 to $140 per annum.

2. Residence and Discipline.—Students are expected to reside in the main buildings, which are occupied by the President and Professors and their respective families. No student can reside elsewhere without special permission.

The discipline of the institution is moral and parental. Disgraceful punishments are not inflicted; but no young man who indulges in gaming, intemperance, or other vice, who is absent from his room at night, or who habitually neglects his studies, can be allowed to remain.

Parents or guardians are requested either to appoint a special guardian for their sons or wards, or to deposit all funds intended for their use with the Treasurer or Registrar of the College, who act as fiscal guardians without charge.

An account of the delinquencies of every student, and of his daily attendance, conduct and scholarship, is kept by the Registrar.

The result, determining his place on the Merit Roll, is reported at the close of each term, or more frequently, to his parent or guardian.

Every student is required to return punctually at the opening of each term and report himself at the Registrar's office; and until so reported will be considered as absent, and so marked on his bill. A similar report, and for the same reason, is required after any temporary absence from sickness or by permission.

Parents will please inform the Registrar, by their sons, what church they wish them to attend.

3. Freshman Scholarships.—*Prize Scholarships* have been founded by President E. Nott, to be awarded to candidates who shall severally pass such thorough examinations as shall entitle them to the distinction. The incumbents of these scholarships will receive a credit equal to their term bill and ten dollars in cash for the first term, the same to be continued each term thereafter, during the entire collegiate course, provided they shall maintain their standing in their class; and provided also, they shall continue to comply with the rules prescribed by the founder of the scholarships; among which is the pledge on the part of each, that he will neither use intoxicating liquor as a beverage, nor tobacco in any of its forms, so long as he shall continue to receive the avails of the scholarship which has been awarded to him.

Prize Scholarships for Graduates have also been founded by President Nott; and graduates prosecuting chemical studies in the Analytical Department of the Nott Laboratory, may avail themselves of the stipend attached to these scholarships, provided they comply with the rules prescribed by the founder of said scholarships.

4. The Blatchford Oratorical Medals.—R. M. Blatchford, Esq, has recently founded an Oratorical Prize, consisting of two Gold Medals, of the value of the income of $1,000, to be given to the two members of the graduating class who shall deliver the best orations, "regard being had alike to their elevated and classical character, and to their graceful and effective delivery." Accordingly, two medals will be awarded, one of the value of $40 to the best written and spoken oration, and one of the value of $30 to the second best; to be determined by a committee appointed for that purpose, their award to be announced to the audience at the close of the exercises.

5. The Warner Prize.—H. G. Warner, Esq., of Rochester, has founded an Annual Prize, consisting of a piece of Silver Plate of the value of $50, to be awarded to "The Graduate of Union College who shall reach the highest standing in the performance of collegiate duties, and also sustain the best character for moral rectitude and deportment, without regard to religious practice or profession." The prize is to be awarded on Commencement day by the officers of the College, in accordance with certain conditions prescribed by the donor.

6. Vacations.—There are three vacations annually; one of six weeks immediately after Commencement, which is on the Thursday following the fourth Wednesday of July; one of four or five weeks from the 1st of December, and one in April. Students are expected to return to their friends during vacations; and when parents can not provide for this, the President should be apprised of it, that arrangements may be made in season to secure them proper residences.

7. Commencement Speakers.—Students are reminded that the relative position occupied by the names of the members of the graduating class on their final merit roll, depends entirely on the standing taken by each respectively on his examination when entering the class, and on their subsequent relative diligence, punctuality, gentlemanlike demeanor and moral conduct.

CATALOGUE OF STUDENTS.

ABBREVIATIONS.

C Classical Students. *S* Scientific Students. *U* University Students.
ϖ Candidates for Matriculation.
‡ Candidates Matriculated, subject to conditions.
a Attendance not satisfactory. *c* Conduct not satisfactory.
n Absent during the Term, or from examination—to be hereafter examined.
— Deficient in one study at Examination.
* Dead. † Left College.

N—North College. S—South College.
N Colon—North Colonade. S Colon—South Colonnade.
N. H.—North Hall.

SENIOR CLASS.

	NAMES	RESIDENCES	ROOMS
C	Pitson J. Abbott.....	Windsor.....	N. H.
C	Elbridge G. Adams.....	Lowville.....	
C	John M. Bailey.....	Albany.....	37 S.
†*S*	William W. Baldwin.....	Worcester.....	
†*U*	Purdy D. Barnhart.....	Marlborough.....	
C	John A. Barnes.....	Pittsburgh, Ind.....	
C	Samuel Barstow.....	Owego	174 Union st.
C	Frederick Bates.....	St. Louis, Mo.....	35 N.
†*C*	Lyman W. Bates.....	Cherry Valley.....	
C	Franklin Beard.....	Utica	
C	J. Henry Becker.....	Waterford.....	
C	John V. D. Benedict.....	Warwick, c. Lib'ty & Lafayette sts.	
†*C*	Edward P. Berry.....	Dover, N. J.....	
C	Collins Blakely.....	Pawlet, Vt.....	19 Lafayette st.
†*C*	E. Nott Bosworth.....	Baltimore, Md.....	
C	Ezra C. Bradley.....	Dunkirk.....	
C	Lucius L. Bridges.....	Massena.....	
U	Timothy H. Brosnan.....	Waddington.....	
C	James K. Brugler.....	Bloomsburg, Pa....	
**U*	Ira W. Calkins.....	Seward	
†*S*	Daniel L. Clark.....	Potsdam.....	
†*U*	Henry G. Clayton.....	Manalapan, N. J....	
†*C*	John H. Clickner.....	Holley.....	
C	Ira J. Clizbe.....	Amsterdam.....	42 N.
S	Monmouth H. Close.....	Covert.....	Lafayette st.
C	John S. Coe.....	Clyde	

	NAMES	RESIDENCES	ROOMS
C	J. McK. Cook	Albany	47 N.
S	Frederick W. Corliss	Albion, Mich., c. Lib. & Laf'tte sts.	
S	Arthur H. Davis	Stroudsburgh, Pa.	
†*U*	E. Valincourt Deuel	St. Paul, Minn.	
†*U*	Robert Dickey	New London, Pa.	
†*U*	Peter Dinzey	St. Bartholomew, W. I.	
C	Sebastian Duffy	Morrisville, cor. Lib'ty & Laf'tte sts.	
C	Charles M. Earle	New York	
†*C*	Edwin Einstein	New York	
C	Porter Farley	Rochester	41 N.
U	Michael J. Farrell	Frewsburg	
S	Henry Fawdrey	Houndsfield	
†*U*	Blanchard Fosgate, Jr.	Auburn	
S	Charles J. Fox	Painted Post	
C	Thomas C. Frame	Milford, Del.	
†*U*	Henry A. Furman	Schenectady	
C	Addison W. Gates	Ontario	
†*C*	Dan S. Giffin	Heuvelton	
S	Charles W. Gillett	Addison	21 S.
†*C*	Walter R. Gillette	New York	
nC	Frank H. Hamilton, Jr.	Buffalo	
†*S*	James M. Hamilton	Carbondale, Pa.	
†*U*	Solyman G. Hamlin	Glenville	
C	John M. Hartwell	Charlotteville	23 S.
†*S*	Hector C. Havemeyer	New York	
C	Theodore H. Haseltine	Baraboo, Wis.	2 S. Colon.
C	John L. Hill	Waterford	
S	Willard F. Holbrook	Morris	
C	Chester Holcomb, Jr.	Sodus	
C	James W. Hopkins	Kalamazoo, Mich.	24 S.
†*U*	Ross C. Houghton	Depauville	

	NAMES	RESIDENCES	ROOMS
C	Isaac J. Howell.....	York..... ...	
†*U*	Peter E. Houck.....	Port Jackson.....	
†*U*	Henry A. Hubbard.....	Ludlow, Mass.....	
†*xC*	John K. Hubbard.....	Helena, Ark.....	
S	Sylvanus B. Huested.....	Albany	27 Barrett st.
C	Henry M. Isham.....	Esperance	
C	Ethan A. Ives.....	Norway	
nC	William H. Ivins.....	Philadelphia, Pa..	
S	Charles E. Judson.....	Schenectady.....	
S	Henry Keim.....	Bethlehem, Pa.....	
U	Henry M. Keim.....	Reading, Pa.....	44 N.
S	Marshall S. Keyes.....	Walpole, N. H.....118	Union st.
†*U*	Robert Kidd.....	Albany	
S	Milton B. Kirby.....	Bainbridge.....	
S	Melville D. Landon.....	Eaton.....	
C	Byron W. Langdon.....	Columbus, Ohio 170	Union st.
†*S*	James Lawyer.....	Schoharie.....	
†*C*	Daniel Leech, Jr.....	Washington, D. C..	
C	Peter A. Le Fevre.....	New Paltz.....	24 S.
†*S*	John D. Lewis.....	Lorain	
C	Timothy Lightbown.....	Sauquoit	30 S
†*C*	Albert W. Lincoln,.....	Albion, Me.....	
†*C*	James Lyon.....	Oswego.....	
C	W. M. Lasher.....	Duanesburgh.....	41 N.
†*C*	John H. McLean.....	Port Byron.....	
S	Homer W. Martin.....	Worcester.....	
S	Hiram L. Marvin.....	Friendship.....	38 Barrett st.
S	A. Barclay Mitchell.....	Schenectady.....	
C	Henry M. Morey.....	Avon.....	7 N.
†*C*	David S. Morgan.....	Andover, Mass.....	
C	Thaddeus E. Munn.....	Leyden	

	NAMES	RESIDENCES	ROOMS
U	Elbert O. Noble	Westfield	
†*C*	John A. Osborn	Otisville	
U	John R. Palmer	Charleston	6 S.
xC	David E. Parsons	Harmony, Me	
C	Henry Parsons	Sharon Springs	7 N.
**U*	Cyril H. Pinchott	Milford, Pa	
**S*	D. Winslow Pitts	Yates	
C	Eliphalet N. Potter	Philadelphia, Pa	
†*C*	David S. Pratt	Trumansburgh	
†*C*	Albert Rathbone	Albany	
†*U*	James M. Redfield	Batavia	
S	J. Remington	Brighton	36 South ave.
C	S. Edgar Reynolds	Petersburgh	
†*C*	William W. Robertson	Jackson	
C	George Robinson	Argyle	8 N.
C	Sherman R. Robinson	Hamilton	
†*C*	Joseph M. Rogers	Lexington, Ky	
C	Joseph Roop, Jr	Wilmington, Del	
†*C*	Jay E. Russell	Brandford, Conn	
†*S*	Charles H. Savage	Kendall	
U	Daniel J. Schuyler	Minaville	
†*C*	Vilfred Senette	St. Marys, La	
C	Chas. E. Smith	Albany	
S	Edward L. Snyder	Gallatin,	65 Lafayette st.
U	Dwight K. Steele	Harbor Creek, Pa	
S	Orrin C. Steenberg	Halfmoon	
C	James M. Stevenson	Salem	
C	Ira C. Terry	Peru, Ohio	28 N.
†*S*	Thomas J. Thorp	Granger	
C	Jacob Titman	Hope, N. J	29 S.
C	Zoradus C. Trask	Nobleboro, Me	

	NAMES	RESIDENCES	ROOMS
S	Robert T. Turner.....	Veteran.....	
†*S*	Samuel C. Van Camp.....	Tully	
†*U*	Rush Vanleer.....	Nashville, Tenn....	
†*U*	Wm. W. Van Voast.....	Johnstown.....	
C	Peter Van Vranken.....	Niskayuna.....	
C	James P. Viele.....	Schuylerville.....	
nC	Alexander Walker.....	North Gage.....	
†*U*	Francis F. Wakely.....	Greenville..... ...	
C	Horatio D. Warner.....	Rochester	39 N.
S	Willie C. Warner.....	Nunda.....11	Lafayette st.
C	Isaac S. Weaver.....	Xenia, Ohio.....	
S	Lucius B. Wells.....	Holland Patent,....	29 Barret st.
†*S*	Jerome T. Welpley.....	Schenectady.....	
C	Homer White.....	New York	
C	Thaddeus R. White... ...	New York.....	167 Union st.
†*U*	Henry Wilcox, Jr.....	Hadley	
C	Timothy E. Wilcox.	Cedar Lake.....	22 N.
†*C*	Benj. A. Willis.....	North Hempstead..	
C	Amos S. Yale.....	Wellsville	Lafayette st.
†*C*	Daniel Yost.....	Johnstown.....	
C	Walter M. Young.....	Buffalo	

JUNIOR CLASS.

	NAMES	RESIDENCES	ROOMS
S	Edward Auten..... ...	Princeville, Ill.....	4 S Colon.
S	Geo. W. Baker.....	Schuyler's Lake...	46 S.
U	William H. Barcley.....	Knox.....	
C	Jas. L. Bothwell.....	Groton.....	28 N.
S	Calvin A. Brewer.....	Greene.....	25 N.
nS	William M. Brisben.. ...	Sunbury, Pa.....	
C	Peter H. Brooks.....	Schenectady.....	146 Union st.
†*S*	J. Cady Brown.....	Minaville.....	
C	William R. Brown.....	Lawrence, Kansas..	6 N.
C	David A. Burnet.....	New Windsor.....	23 N.
C	Jas. I. Burns.....	Yonkers.....	76 Fonda st.
C	John Butler.....	Lewiston.....	8 S.
U	D. H. Calkins.....	Pulaski.....	
S	Seymour D. Carpenter...	Clifton Park.....	14 S.
xS	Charles M. Carter.....	Ballston.....	
xC	Samuel W. Clark.....	New Castle, Me....	27 N.
S	Abel R. Corbin, Jr.....	McDonough.....	30 N.
nS	John Q. A. Crounse.....	Hyndsville.....	32 N.
C	Stephen B. Culver.....	Sandy Hill.....	47 S.
†*C*	John S. Delavan.....	South Ballston....	
C	John H. Dennis.....	Stillwater.....	10 N.
†*S*	Geo. P. Eddy.....	Lewiston.....	

NAMES	RESIDENCES	ROOMS
nC Samuel Edwards.....	Ballston.....	8 N.
†*S* Richard Esselstyn.....	Hudson.....	
†*C* Martin L. Fenton.....	Frewsburg.....	
nC Geo. W. Fitch.....	Cambridge.....	27 Barret st.
†*C* Alfred Foote.....	Geneva.....	
C David Gebhart.....	Williamsport, Pa...	24 N.
†*C* John R. George.....	Alexandria, La.....	
C Henry B. Graham.....	Montgomery.....	23 N.
†*U* Frank H. Grant.....	New York.....	
†*C* John C. Graves.....	Herkimer.....	
S Frederick S. Gray.....	York.....	
C Cornelius A. Groot.....	Auburn.....	15 S.
C Hiram D. Hall.....	Elyria, Ohio,.....	76 Fonda st.
C George Harkness.....	Kortright.....	
†*U* James Havemeyer.....	New York.....	
†*C* John F. Hazelton.....	Chester, N. H.....	
C Oliver Hemstreet.....	Carlisle.....	47 S.
S Chester P. Hodge	Le Raysville, Pa...	N. H.
U Peter S. Holloway.....	Henderson, Ky....	41 S.
C Boardman S. Hough.....	West Leyden.....	5 S.
†*C* Leander J. House.....	Smyrna.....	
nC Samuel B. Howe.....	Groton	
S Augustus Hubbard.....	Champion.....	26 N.
nC Ova S. Hurlbert.....	Madrid.....	
C Bryan Johnson.....	Utica.....	180 Union st.
C James W. Johnston.....	Stewiacke, Nova Scotia,	N. H.
S Meshach T. Jones.....	Remsen.....	29 Barret st.
†*S* James T. Joslin.....	Schenectady.....	
C Edward Judson.....	Schenectady.....	
nC J. Ruselle Kinney.....	Defiance, Ohio	
S Levi A. Lapham.....	Princeville, Ill	S. S. Colon.

	NAMES	RESIDENCES	ROOMS
S	Joseph M. Lawson	West Troy,	5 N.
C	David N. Lewis	Wells, Vt.	12 N.
†*S*	Jeduthan H. Linsay	Greensboro', N. C.	
†*U*	John S. Lockwood	Camden, Del.	
†*C*	Nicoll Ludlow	Islip	
nS	Joseph McConnell	Pontiac, Mich.	
†*S*	David C. W. McCorkle	Wilmington, Del.	
†*U*	Elbridge W. Merritt	Williamsburgh, Mass.	
†*U*	Amos K. Montague	Henderson	
†*C*	Alexander B. Nelson	Cambridge	
†*S*	Henry W. Nichols	Brookfield, Mass.	
S	Henry E. Ogden	Walton	25 Franklin st.
†*C*	John B. G. O'Neil	Fernandina, Fla.	
C	Adam Overfield, Jr.	Marshall's Creek, Pa.	
†*C*	Gabriel H. Parhurst	Florida	
nS	Joseph T. Patch	Collins	
†*U*	Hiland E. Paul	Wells, Vt.	
C	Fletcher C. Peck	Nunda	
**S*	Wm. J. Quick	Rotterdam	
C	Edward H. Ripley	Centre Rutland, Vt.	
†*S*	Charlton B. Rogers	Lexington, Ky.	
nC	Chas. L. Sanford	Middleburgh	
nC	Wm. Scofield, Jr.	Hadley	
C	Wm. H. Shankland, Jr.	Syracuse,	182 Union st.
C	John E. Sherwood	Glenville	5 N.
C	Jas. G. Slenker	New Berlin, Pa.	25 S.
S	Elliott T. Slocum	Trenton, Mich.	179 State st.
†*U*	Eugene A. Smalley	Burlington, Vt.	
†*C*	James S. Smart	Cambridge	
U	Edmund B. Smith	Franklin	
U	Edwin F. Smith	Reading, Pa.	20 Liberty st.

	NAMES	RESIDENCES	ROOMS
†*C*	George L. Smith.....	Poundridge.....	
S	Robert B. Smith.....	Marathon.....	30 N.
†*S*	Hiram Snyder.....	Rosendale.....	
S	Wm. Soaper, Jr.....	Henderson, Ky.....	188 Union st.
C	Walter Starbuck...	Troy.....	
C	Oliver P. Steves.....	North Chatham....	11 N.
†*C*	Wm. H. S. Stoller	Johnstown	
S	Thos. L. Sturtevant.....	Winthrop, Me.....	3 Romeyn st.
†*S*	Charles Styer.....	Norristown, Pa.....	
nC	Henry L. Teller.....	Brooklyn.....	14 S.
S	Samuel S. Thomas.....	Springville, Pa.....	
C	James Thompson.....	South Galway.....	18 S.
nC	Chas. E. Van Allen.....	West Perth.....	25 Franklin st.
†*U*	Dory B. Vanderveer.....	Amsterdam	
C	Andrew Vanderzee,.....	Coeymans.....	29 N.
†*S*	Rodney S. Vedder.....	Schenectady	
†*C*	Harrison E. Webster.....	Clayville.....	
†*C*	David G. Wellington.....	McGrawville	
U	Andrew B. Williams.....	Knox.....	
C	Ezra Williams	Tioga, Pa.,.....	30 S.
U	John M. Wilson.....	New Holland, Ohio,	188 Union st.
C	Benj. F. Wright.....	Sauquoit.....	10 N.
C	Henry Wright.....	Southport.....	23 S.
S	Samuel Yeoman.....	Franklin.....	15 N.
nC	John D. Young.....	Springfield.....	

SOPHOMORE CLASS.

	NAMES	RESIDENCES	ROOMS
C	Daniel T. Arbuckle.....	Delhi.....	16 N.
S	Chas. S. Austin.....	Peoria, Ill.....	43 N.
S	Thaddeus R. Austin.....	Peoria, Ill.....	43 N.
†*S*	Lemuel Auten.....	Princeville, Ill....	
C	Wm. P. Bard.....	Reading, Pa.....	9 N.
–*C*	Henry N. Beckwith	Sutton, Vt.....	53 Barret st.
C	Lewis H. Bellinger.....	Root.....	6 S.
U	Frederick J. Bennett.....	Gibson, Pa.....	12 S.
†*C*	Daniel Bosworth.....	Baltimore, Md.....	
**C*	Arnold Brown.....	Corning.....	
†*C*	John P. Cabell,.....	Henderson, Ky.....	
S	Angus Cameron, Jr.....	Pavilion.....	45 S.
C	Edward Cary.....	Albany.....	47 N.
C	Chas. G. Clark.....	Troy.....	53 Barret st.
S	Sandford C. Conde	West Troy.....	33 N.
nC	Wm. C. Corbett	Putnam.....	
U	Samuel J. Day.....	Marlboro', Conn...	179 State st.
C	Geo. W. Denton.....	North Hempstead..	16 S.
C	Robert Donald.....	Mount Vernon, Wis.	44 S.
C	Jacob W. Dubois.....	Rosendale.....	28 S.
C	Chas. L. Easton.....	Lowville.....	26 N.
xS	Thos. H. Fearey.....	Albany.....	44 S.

	NAMES	RESIDENCES	ROOMS
C	William H. Field.....	New York	44 N.
nC	Nelson O. Freeman.....	Woolcot, Vt.....	
nC	Edward Frothingham	Johnstown.....	
†*C*	Eugene Terry Gardner...	Troy	
nS	Geo. C. Gibbs, Jr.....	New York.....	170 Union st.
†*S*	Jas. F. Gregory.....	West Troy.....	
†*C*	Chas. E. Hendrickson.....	New Egypt, N. J...	
C	Chas. M. A. Hewes.....	Lawrence, Mass....	171 Union st.
C	William S. Holloway....	Henderson, Ky.....	9 S.
C	John J. Holloway.....	Henderson, Ky.....	41 S.
†*C*	Oscar F. Horner.....	New Egypt, N. J...	
†*U*	William T. Hurt.....	Lexington, Ky.....	
†*C*	William Hutton, Jr.....	Putnam.....	
U	E. Emory Johnson.....	East Haddam, Conn.	151 Union st.
C	Jas. G. Johnson.....	Washington, D. C..	173 Union st.
S	Alvah R. Jordan.....	Morris, Ill	31 S.
xC	Clarence P. Kidder.....	Wilkesbarre, Pa,..	142 Lafayette st.
†*U*	Jas. F. Knowles.....	Greenville	
C	Edwin Malaney.....	Trenton.....	
C	Bradley Martin.....	Albany.....	39 N.
C	Samuel G. L. Mott.....	Sing Sing.....	43 S.
nC	Henry E. Munger.....	Granville.....	14 N.
C	Thos. S. Murdock.....	Kortright.....	16 N.
C	Amasa J. Parker, Jr.....	Albany	173 Union st.
nC	Geo. W. Parkhurst.....	Troy	
S	Chas. E. Pearce.....	Auburn.....	20 Liberty st.
C	Hiram E. Phelps.....	Crown Point.....	38 S.
S	Vincent M. Porter.....	Niagara Falls.....	149 State st.
C	Jas. F. Potts.....	Apple Creek, Ill...	45 S.
†*U*	Smith Pratt.....	Hopewell.....	
†*U*	Maurice R. Quackenbush..	Pike.....	

	NAMES	RESIDENCES	ROOMS
C	Daniel C. Reeve.....	Middletown.....	12 Lafayette st.
C	Isaac E. Roberts.....	Lancaster, Pa.....	42 S.
nC	Solomon W. Russell.....	Greenwich.....	
C	Elihu T. Sanford..... ..	Schenectady.....	77 Union st.
S	Geo. F. Sawyer.....	West Kendall.....	76 Fonda st.
C	Henry R. Schwerin.....	New York.....	136 Union st.
S	John H. Serviss.....	Glen	18 N.
nC	Henry H. Shephard.....	Brookfield, Io.....	
C	Alson I. Sherwood.....	Ballston Spa.....	10 S.
†*U*	Harvey A. Smith.....	Enfield, N. H.....	
C	Wm. H. Smith.....	Farmington, Conn..	4 S.
C	Horatio N. Snow.....	Root.....	42 S.
C	George S. Stevens.....	Catskill.....	50 Barret st.
C	Geo. M. Stewart.....	Wales, Mass.....	10 S.
S	Joseph S. Story.....	Flatbush.....	31 N.
C	Edward C. Taintor.....	Buffalo	13 S.
S	Benj. L. Temple.....	Templeville, Md...	14 N.
†*C*	C. Edward Terry.....	Henderson, Ky....	
‡*C*	Frank Thompson.....	Ballston, Spa.....	37 N.
U	Daniel D. Thurber	Pontiac, Mich.....	
C	David N. Vanderveer....	Schenectady.....	34 State st.
xS	Gerrit D. Van Vranken,..	Clifton Park	48 N.
†*C*	Albert Van Wagner.....	Poughkeepsie.....	
C	Henry P. Vosburgh.....	Franklinville.....	
†*U*	Leander Willis	Alden	
C	John Wright, Jr.....	Wilmington, Del...	48 S.
C	James Yates,....	Chicago, Ill.....	118 Liberty st.

FRESHMAN CLASS.

	NAMES	RESIDENCES	ROOMS
U	James A. Allis.....	Syracuse.....	12 N.
C	Wm. H. Beal.....	Schenectady.....	65 Liberty st.
nC	Geo. T. Bradshaw.....	Princetown.....	2 S.
nC	Richard J. Bush.....	San Francisco.....	
C	Jas. D. Clyde.....	Cherry Valley.....	
C	Jas. W. Fisher.....	Newburgh.....	
xC	Samuel H. Gleason.....	Barnet, Vt.....	120 Liberty st.
†*C*	Jared Hasbrouck..... ...	Kingston.....	
C	Bartholomew Higgins.....	Waterford.....	142 Lafayette st.
C	Jacob M. Howard, Jr.....	Detroit, Mich.....	113 Liberty st.
C	Alex. S. Hoyt.....	West Miller.....	174 Union st.
xC	Edward A. Judson.....	Lansingburgh.....	11 S.
C	Archibald Kelly.....	Johnstown.....	N. Colon.
C	Phineas S. Lamb.....	Fort Ann.....	174 Union st.
C	Chas. F. Lewis.....	Schenectady.....	21 S.
C	Jas. O. Liebenau.....	Lloyd.....	26 S.
C	Chas. B. Loomis.....	Buffalo.....	42 N.
C	Edward P. Magoun.....	Hudson.....	189 Union st.
-*C*	Edward J. Maxwell.....	Amsterdam.....	N. H.
C	Frederick M. Newman....	Albany.....	167 Union st.
C	Edward W. Paige.....	Schenectady.....	37 N.
C	Samuel F. Prentiss.....	Montpelier, Vt....	113 Liberty st.

	NAMES	RESIDENCES	ROOMS
C	T. Elder Ralston	Indiana, Pa.	
C	Wm. H. Reid	Johnstown	139 Union st.
C	Jas. H. Robinson	Fairville	19 N.
C	Henry C. Sanborn	Plattsburgh	113 Liberty st.
C	Chas. D. F. Steinfuhrer	Schenectady	7 North st.
C	Alonzo P. A. Strong	Schenectady	9 N.
nC	John V. Tavenner	Winchester, Va.	
C	Chas. O. Thatcher	Schenectady	254 State st.
C	Morris C. Tuthill	Blooming Grove	168 Union st.
C	Chauncy E. Van Allen	Perth	25 Franklin st.
C	David Van Horné	Glen	108 Liberty st.
†C	Marvin Wait	Norwich, Conn.	
†C	Samuel S. Wakeman	Ballston, Spa.	
C	Henry Ward	Guilderland	140 Union st.

STUDENTS OF CIVIL ENGINEERING.

NAMES	RESIDENCES	ROOMS

GRADUATING CLASS.

John Cantine, A.B.....	Stone Ridge.....	175 Union st.
Johannes Le Fevre, A.B.....	New Paltz	
Frank A. Lyons, A.B.....	Lanesborough, Pa..	
Joseph Patterson, A.B.....	Pound Ridge.....	
Edgar B. Van Winkle, A.B. ..	New York	
Chas. D. Wilcox, A.B.....	Port Leyden.....	
Latham L. Buckland.....	East Windsor, Ct...	
Samuel Huntington, Jr.....	Burlington, Vt.....	
Hiram L. Marvin.....	Friendship.....	38 Barret st.

SECOND YEAR STUDENTS.

[REGISTERED IN THE SENIOR CLASS.]

S	J. Remington.....	West Brighton....	36 South Av.
C	Jacob Titman.....	Hope	29 S.
S	Willie C. Warner.....	Nunda.....11	Lafayette st.

[NOT REGISTERED ELSEWHERE.]

Wm. H. Angle.....	Yates.....	27 S.
Edward A. Bradley.....	Whitestown.....	178 Union st.
Chas. A. Dubois.....	Poughkeepsie.....	10 S.
Wm. H. Fuller	Palmer, Mass.....	27 S.
John McGee.....	Indiana, Pa.....	3 Romeyn st.
John V. Norton	Plainville.....	3 Romeyn st.
Chas. H. Odell.....	Yonkers.....	178 Union st.

STUDENTS OF CIVIL ENGINEERING.

	NAMES	RESIDENCES	ROOMS
	FIRST YEAR STUDENTS.		
	[REGISTERED IN THE JUNIOR CLASS.]		
S	ABEL R. CORBIN, Jr.	McDonough	32 N.
U	EDWIN F. SMITH	Reading, Pa.	20 Liberty st.
	[REGISTERED IN THE SOPHOMORE CLASS.]		
S	THOS. H. FEAREY	Albany	44 S.
S	JOHN H. SERVISS	Glen	18 N.
C	HOMER S. WATERBURY	Schoharie	12 S.
	[NOT REGISTERED ELSEWHERE.]		
	EZRA T. CLARK	Bedford	26 S.
	EDWIN O. GIBSON	S. New Berlin	168 Union st.

Students of Analytical Chemistry.

NAMES	TERMS	RESIDENCES	ROOMS
R. Carter	1st, 2d, 3d,	Brooklyn	179 State st.
W. H. Chandler	3d,	New Bedford, Mass.	22 N.
A. J. Corning	1st, 2d,	Haverhill, Mass.	
H. A. Greene, A.B.	1st, 2d, 3d,	Mount Morris	140 Union st.
P. Hernandez	1st,	Cuba	
B. H. Mann	2d, 3d,	Roxbury, Mass.	118 Union st.
J. Reagles, Jr.	1st, 2d, 3d,	Schenectady	214 State st.
O. F. Whitford, A.B.	3d,	Northumberland	180 Union st.

[REGISTERED IN THE PRECEDING CLASSES.]

W. H. Barcley	3d,	Knox	140 Union st.
P. Farley	3d,	Rochester	41 N.
M. L. Fenton	1st,	Frewsburg	
W. H. Field	2d,	New York	44 N.
P. S. Holloway	3d,	Henderson, Ky	41 S.
S. B. Huested	1st,	Albany	27 Barret st.
H. Keim	2d,	Bethlehem, Pa.	
M. B. Kirby	2d,	Bainbridge	
E. P. Magoun	2d,	Hudson	189 Union st.
B. Martin	2d,	Albany	39 N.
H. E. Ogden	2d, 3d,	Walton	25 Franklin st.
E. W. Paige	2d,	Schenectady	37 N.

NAMES	TERMS	RESIDENCES	ROOMS
J. R. Palmer	1st, 2d, 3d,	Charleston	6 S.
J. F. Potts	1st,	Apple Creek, Ill.	45 S.
W. Soaper, Jr.	3d,	Henderson, Ky	188 Union st.
A. P. A. Strong	2d,	Schenectady	9 N.
D. D. Thurber	2d,	Pontiac, Mich.	
E. B. Van Winkle, A.B.	2d,	New York	
L. B. Wells	2d,	Holland Patent	29 Barret st.
T. E. Wilcox	1st, 2d,	Cedar Lake	22 N.
A. B. Williams	2d,	Knox	
W. M. Young	1st, 2d,	Buffalo	

SUMMARY.

SENIORS	140
JUNIORS	109
SOPHOMORES	80
FRESHMEN	36
CIVIL ENGINEERING STUDENTS	26
CHEMICAL STUDENTS	30
	421
REGISTERED IN TWO COURSES	31
TOTAL	390

PRIZE SCHOLARSHIPS.

The Prize Scholarships endowed by Dr. NOTT, have been awarded to the following persons:

CLASS OF 1861.

HENRY PARSONS, Prepared at WILLISTON SEMINARY, East Hampton, Mass.

CLASS OF 1862.

OLIVER P. STEVES,
Prepared at TROY CONFERENCE ACADEMY—Principal, Rev. R. M. MANLY, A.M.

BENJAMIN F. WRIGHT,
Prepared at SAUQUOIT ACADEMY—Principal, Rev. M. EARL DUNHAM, A.M.

CLASS OF 1863.

EDWARD C. TAINTOR.....Prepared under Rev. JOHN L. SEE, BUFFALO.

CLASS OF 1864.

WILLIAM H. BEAL..... Prepared at UNION SCHOOL, Schenectady.
JAMES O. LIEBENAU.....Prepared by F. A. M. BROWN, A.B.
EDWARD W. PAIGE.....Prepared at UNION SCHOOL, Schenectady.
ALONZO P. A. STRONG.....Prepared at UNION SCHOOL, Schenectady.

BLATCHFORD ORATORICAL MEDALS.

AWARDED AT COMMENCEMENT, 1860.

First.—JAMES C. ROGERS.....Sandy Hill.
Second.—DOUGLAS CAMPBELL.....Cherry Valley.

WARNER PRIZE.

AWARDED AT COMMENCEMENT, 1860.

EDWIN B. TEFT.....Fort Miller.

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TIME OF RINGING THE BELL.

FIRST TERM.	A. M.				P. M.			SECOND TERM.
Commencing First Monday.	*First Bell.*	*Prayer and Recita. Bell.*	*Study Bell.*	*Recitation Bell.*	*Study Bell.*	*Recitation Bell.*	*Study Bell.*	*Commencing First Monday.*
First Week.....	6 35	7 35	9	11	2 00	4 00	7	Twelfth Week.
Second Week.....	6 35	7 35	9	11	1 55	3 55	7	Eleventh Week.
Third Week.....	6 40	7 40	9	11	1 50	3 50	7	Tenth Week.
Fourth Week.....	6 40	7 40	9	11	1 45	3 45	7	Ninth Week.
Fifth Week.....	6 45	7 45	9	11	1 40	3 40	7	Eight Week.
Sixth Week.....	6 45	7 45	9	11	1 35	3 35	7	Seventh Week.
Seventh Week.....	6 50	7 50	9	11	1 30	3 30	7	Sixth Week.
Eighth Week.....	6 50	7 50	9	11	1 20	3 20	7	Fifth Week.
Ninth Week.....	6 55	7 55	9	11	1 15	3 15	7	Fourth Week.
Tenth Week.....	6 55	7 55	9	11	1 10	3 10	7	Third Week.
Eleventh Week.....	7 00	8 00	9	11	1 05	3 05	7	Second Week.
Twelfth Week.....	7 00	8 00	9	11.	1 00	3 00	7	First Week.
THIRD TERM.....	6 30	7 30	9	11	2 00	4 00	*Early Candle Light.*	THIRD TERM.

C
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1861/62
3d term

CIRCULAR

AND

CATALOGUE

OF

UNION COLLEGE,

SIXTY-EIGHTH YEAR,

THIRD TERM.

1862.

CIRCULAR

AND

CATALOGUE

OF

UNION COLLEGE,

SIXTY-EIGHTH YEAR,

THIRD TERM,

1862.

ALBANY:
J. MUNSELL, 78 STATE STREET.
1862.

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Hon. ROBERT CAMPBELL, Lieut. Governor.
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Hon. DANIEL S. DICKINSON, Attorney General.
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Rev. LAURENS P. HICKOK, D.D., Acting President,

And Professor of Mental and Moral Philosophy.

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ISAAC W. JACKSON, LL.D.,

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Assistant Professor of Rhetoric.

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NOTT Professor (No. 4), Principal of Classical Department of Schenectady Union School.

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GEORGE GILBERT, A.M.,

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CALENDAR, 1862-3.

THIRD TERM BEGAN	Friday,	April	25,	1862.
THIRD TERM ENDS	Friday,	July	18,	"
PHI BETA KAPPA DAY	Tuesday,	July	22,	"
GRADUATES' DAY	Wednesd'y,	July	23,	"
COMMENCEMENT	Thursday,	July	24,	"
FIRST TERM BEGINS	Friday,	Sept.	5,	"
FIRST TERM ENDS	Friday,	Nov.	28,	"
SECOND TERM BEGINS	Friday,	Jan.	2,	1863.
SECOND TERM ENDS	Friday,	March	27,	"
THIRD TERM BEGINS	Friday,	April	24,	"
THIRD TERM ENDS	Friday,	July	17,	"
PHI BETA KAPPA DAY	Tuesday,	July	21,	"
GRADUATES' DAY	Wednesd'y	July	22,	"
COMMENCEMENT	Thursday,	July	23,	"

INFORMATION.

I. COURSES OF STUDY.

There are three Courses of Study established in the institution; the Classical, the Scientific, and the University or Partial course. A three years' course for Graduates is also in preparation.

The Classical course is the usual Baccalaureate course of the College, and remains unchanged, and the degrees conferred remain the same as is customary in American Colleges.

In the Scientific course the modern languages are substituted in place of the ancient languages, and the amount of mathematical studies is increased. The degrees conferred remain unchanged; but the diploma given is in French.

In the Partial or University course, students select such studies as they please, and receive a certificate indicating their proficiency in those which they have pursued. This is in English.

There are also special courses of instruction in Civil Engineering and in Analytical Chemistry.

II. REQUIREMENTS FOR ADMISSION.

Candidates for admission must present testimonials of good moral character, and if from another college, a letter of honorable dismission or of special request. Sixteen years of age are requisite for admission; the candidate enters, however, any class for which he is qualified. As good moral deportment, as well as certain acquirements in literature, is necessary to a standing in this institution, candidates for admission will be put on probation, during which they will recite with their class, and enjoy there all the privileges of members in full standing. When sufficient time has elapsed, if their conduct be such as to warrant it, the president will sign a certificate of their admission. If not previously vaccinated, they will be required to become so before their admission.

Candidates for the Freshman Class, in the *Classical* course, must be *thoroughly* prepared in English Grammar; Arithmetic (Davies' "University," or an equivalent); Andrews & Stoddard's Latin Grammar; Cæsar's Commentaries, four books; Virgil's Æneid, six books, with the rules of Hexameter Verse; four Orations of Cicero; Sallust's Catiline; Bullions' Greek Grammar and Greek Reader. The whole, or a full equivalent, in both quantity and quality, will be strictly required. It is desirable that those intending to pursue the Classical course should enter at the commencement of the Freshman year.*

Candidates for the *Scientific* course may prosecute the studies of the Freshman year in the Union School connected with the College, or with any competent teacher; and will be examined for admission to the Sophomore year on English Grammar, Practical Arithmetic (Davies' "University"), Algebra to *n*th root, Geometry, five books, and United States History.

Candidates for any other class will also be examined in all the studies previously pursued by said class, as shown in the following course of studies.

It is very important that candidates should be thoroughly prepared, especially in grammatical and elementary knowledge. Where they have more time than is requisite for such preparation, it is desirable, for obvious reasons, that they should not anticipate subjects in the College course, but apply themselves to other studies.

Students from other colleges can not enter later than the beginning of the third term of the Senior year.

Students not candidates for a degree are examined only sufficiently to test their qualifications to pursue with advantage the course of study which they have in view.

Examinations for admission take place in presence of three officers. The regular times for such examinations are the last two days of the week preceding Commencement, and the last two days of each vacation (viz: Thursday and Friday), at 10 o'clock A. M.

* Teachers preparing students to enter College, are requested to notice that the above requirements for admission are more precisely specified than heretofore, and having been reduced to the minimum quantity, a full compliance with them will hereafter be expected.

III. DEPARTMENTS OF INSTRUCTION.

1. THE GREEK LANGUAGE AND LITERATURE.

The course of instruction in this department extends regularly through the whole of the Freshman and Sophomore years, together with the first and third terms of the Junior. In the Senior, the subject is made a regular study during one term, and in another, some Greek author is read as a voluntary exercise, when time and circumstances permit. Lectures form the greater part of the instruction in the latter part of the course. There is a gradation of aims. The Freshman year is employed almost wholly in thorough grammatical drilling. In the Sophomore year the chief object is correct and elegant translation, in which much attention is paid to what may be called the laws of correct expression, or the transfer of idiom into idiom. A constant demand is, the best English for the best Greek. Thus progress is made in the knowledge of the capacities of our own tongue, whilst the power of the ancient language is shown in a way which can never be exhibited in the un-English verbal renderings that are so commonly permitted. In the Junior year, the same object is pursued, but more attention is given to the philosophy or poetry of the classic author, as a matter of general criticism. In the time devoted to Greek in the Senior year, the latter aim is made predominant.

By steadily pursuing this course, there is found to be a manifest improvement in each succeeding class. The standard of preparation is gradually raised, the valuable educational influence of the classics is secured for the whole class, whilst great pains are taken, especially in the latter part of the course, to arouse the enthusiasm of that smaller portion who may be expected to make the ancient languages and literature a special study in after life.

The reading of the Freshman year is confined mainly to Xenophon and Homer. The Sophomore year and part of the Junior, are found from good experience, to be most profitably occupied with the Greek Dramatic Poetry, whilst in the remainder of the course the

Greek Philosophy is made the chief object of attention. One idea is never lost sight of. It is the bearing of the ancient philosophy, poetry, and mythology, upon Revelation and the Christian theology. Especially in the Junior and Senior years, is this made a prominent thought, presented not only in lectures, but in constantly calling attention to every thing by which it may be legitimately suggested.

The course of reading is frequently varied from that which is presented in the Catalogue, although the same general amount is required and the same general plan is pursued. As the instruction is in a high degree oral, bare text-books are preferred to editions with notes, although no objection is made to such helps when they can be obtained.

2. LATIN LANGUAGE AND LITERATURE.

The studies of this department embrace a select series of the Latin classics, accompanied by miscellaneous exercises, extending through the Freshman and Sophomore years, and one term of the Junior year, and arranged as indicated on pages twenty and twenty-two; though other authors are often read.

The attention of candidates for admission is directed specially to the necessity of previous thorough grammatical drilling. The chief aim of the instruction here is not to teach the mere forms of words and rules of Syntax, but to impart a knowledge of the derivations and affinities of the Latin language, its peculiarities of idiom, its equivalent constructions, its synonymous words, the force and beauty of its particles; and collaterally, of the leading features of Roman literature, history and philosophy. Instruction in these is given by informal lectures, composed of explanations and questions by the Professor, to be responded to by the student, as it is found that this course best secures the requisite amount of reading and investigation.

As books for reading and reference, Zumpt's, and Andrews and Stoddard's Latin Grammars; Schmitz's and Arnold's Histories of Rome; Smith's Dictionary of Greek and Roman Antiquities; Anthon's Classical Dictionary, and Findlay's Classical Atlas, or their equivalents, are deemed indispensable.

3. MODERN LANGUAGES.

The course of instruction in the modern languages includes thorough grammatical drilling and oral and written exercises in translation and composition, followed by the study of the grammars of the respective tongues in the original, and lectures on their literatures.

The course is thus divided :

THE GERMAN LANGUAGE is taught as a regular daily study of the Scientific course during three successive terms, beginning with the First Term Junior. The text books used are Peissner's "Grammar, Exercises and Reading Lessons;" Dr. Heyse's *Leitfaden der deutschen Sprache*, and Peissner's "Course of German Literature."

THE FRENCH LANGUAGE is made a regular daily study of the Scientific course during two successive terms, beginning with the First Term Sophomore. The text books used are Peissner's "Elements of the Romance Languages, French, Italian, Spanish;" and Louis Pujol's "*Complete French Class Book.*" A voluntary class (advanced) is formed in the following term, in which *Corneille*, *Racine*, *Molière*, or other classics, are read.

THE SPANISH LANGUAGE is a voluntary study in the Second Term Senior. The text books used are Peissner's "Romance Languages," and Salva's *Grammatica Castellana*. An advanced class may pursue this study another term, Velasquez's Reader being the text book.

THE ITALIAN LANGUAGE is taught as a voluntary study in the Third Term Sophomore. The text books are Peissner's "Romance Languages," and Rio's *Lingua Italiana*. An advanced class may pursue the study of Italian another term, Foresti's Reader, or some Italian classic, being the text book.

The hours for the recitations in the modern languages are so arranged that they may be taken by regular classical students.

4. MATHEMATICS AND ASTRONOMY.

The studies of this department are arranged as follows:

FRESHMAN YEAR.

First Term.—Algebra, to square root.—(Bourdon.)
Second Term.—Algebra, to *n*th root.—(Bourdon.)
Third Term.—Geometry—Plane; five books.—(Legendre.)

SOPHOMORE YEAR.

First Term.—Geometry—Solid; four books.—(Legendre.)
Second Term.—Algebra, completed.—(Bourdon.)
Third Term.—Trigonometry—Plane and Spherical.—(Jackson.)

JUNIOR YEAR.

First Term.—Conic Sections.—(Jackson) or
Analytical Geometry.—(Davies.)
Descriptive Geometry.—(Heather's Monge.)
Second Term.—Differential and Integral Calculus.—(Davies.)
Third Term.—Analytical Mechanics.—(Boucharlat.)

SENIOR YEAR.

Second Term.—Astronomy.—(Gummere.)

5. CIVIL ENGINEERING.

This department was founded in 1845. Its object is to give its students such instruction in the theory and practice of Civil Engineering, as to qualify them for immediate usefulness in the field and office in a subordinate capacity, and at the same time to fit them to fill satisfactorily the higher positions in the profession after a moderate amount of experience in the routine of practice. The course of instruction aims to effect this by constant exercise in mechanical draughting, instrumental field work and numerical calculation, combined with the study of text books, and lectures on the numerous subjects where books are wanting. Its facilities have recently been

greatly increased by the acquisition of numerons models and instruments from the best European sources.*

The Civil Engineering course can be taken by persons wishing to pursue it specially, by their entering as "University students," taking such collateral regular College studies as may be desirable. It is completed in two years, beginning with the Summer term, or College "Third term," about May 1st, and ending the last week in March, in time for its students to join parties then beginning the field work of the season. The fees are, for the present, the same as those of the ordinary College course.

For commencing the Civil Engineering course (about May 1st), the requirements are Arithmetic, Algebra, Geometry (plane and solid), and the execution and demonstration of the first seventy problems of Mahan's "Industrial Drawing." These last are taught with additions, in the preceding term, to those then present, both "Regular Scientific students" and prospective "Engineering students." Readiness in the common operations of Arithmetic (particularly mental calculation, cancellation and decimals), and perfect familiarity with the elements of Algebra and Geometry, are indispensable preliminaries for commencing the course with advantage. Previous practice in writing rapidly from dictation, and in making abstracts of lectures is very desirable. Any portions of the course may be taken separately by those qualified to pursue them profitably.

The subjects of the course are arranged in the order given below, so as to harmonize them with the Terms of College, and the seasons of the year suitable to field work or otherwise. The course is also so arranged and subdivided, that the more popular topics and the more specially technical ones come at different times; so that those students who desire merely a general knowledge of Civil Engineering as a part of a liberal education, and those who wish to study it professionally, can each be suitably accommodated. The instruction is also given at different hours from those of the regular recitations, so as to prevent

* Among them are these: a complete set (fifty) of the beautiful *Olivier* models of Descriptive Geometry, showing the generations, transformations and intersections of "Rule-surfaces;" the best stone-cutting models (twenty) of *L'Ecole Polytechnique;* the Topographical models of M. Bardin; his "Skew-arch" models; Mr. Doyne's dynamometer Bridge-strain model; the levels of Egault, Troughton, &c.

any interference, and to enable its special students to pursue collaterally such of the regular studies as they are found to require.

FIRST YEAR.

Summer Term.—Land Surveying; (Gillespie, Parts 1, 2, 3,) with field work, plats and calculations.
Draughting, by Plans, Elevations and Sections, or Perpendicular Projection—(Mahan.)
Trigonometry; Plane and Spherical—(Jackson.)

Fall Term.—Surveying continued; and Levelling—(Gillespie.)
Descriptive Geometry—(Heather's Monge.)
Analytical Geometry—(Davies.)

Winter Term.—Draughting, continued.
Mensuration of Engineering Structures, &c.
Statics and Dynamics—(Jackson.)
Differential and Integral Calculus—(Davies.)

SECOND YEAR.

Summer Term.—Higher Surveying.
Engineering Statics; The Strength of Materials.
Draughting, continued.
Hydraulics, Pneumatics, Heat, &c.—(Jackson.)
Analytical Mechanics—(Boucharlat.)

Fall Term.—Road Engineering; with field practice, calculation of Earth work, &c.—(Gillespie.)
Engineering Statics; The Stability of Structures.
Stereotomy; Applications of Descriptive Geometry to Stone cutting, &c.

Winter Term.—General Construction; Materials, Foundations, Masonry, Carpentry, &c.—(Mahan.)
Bridge Engineering; Plans and calculations of the Forms and Dimensions of Bridges of Wood, Iron and Stone.
Water Engineering; Canals, Water Supply, Drainage, River and Sea Coast Improvements, &c.
Geodesy; and Practical Astronomy.

The recent extension of this course demands so much time and study from those who take it, that students of the complete College "Scientific course" *cannot* pursue both at the same time. They can, however, with extra labor, combine the two by making them "overlap," distributing the extra studies of the first four terms of the above course over the last seven terms of the regular course, and then completing the C. E. course in two terms after graduating. Their extra studies would then be taken in this order: *Sophomore*, 3*d term*, Draughting; *Junior*, 1*st term*, Descriptive Geometry; *Junior*, 2*d term*, The Calculus and Draughting; *Junior*, 3*d term*, Analytical Mechanics and Draughting; *Senior*, 1*st term*, Surveying (continued) and Levelling; *Senior*, 2*d term*, Engineering Mensuration; *Senior*, 3*d term*, Higher Surveying and Engineering Statics; and in the two terms after graduating, the subjects noted in the last two terms above.

Students of only the special Engineering course are earnestly advised, if their bodily and mental strength will permit, to combine with it the modern languages and the physical science of the Regular course, including more or less Chemical practice in the Analytical Laboratory. But if their time will allow, their best plan is to enter as "Regular Scientific students," and to pursue the complete course indicated in the preceding paragraph.

At the beginning of the last term of the course, students who are candidates for a diploma are required to undergo a written examination on the leading points of all their preceding studies. Those who pass it satisfactorily, and complete similarly the remainder of the course, receive a diploma of "Graduate in Civil Engineering," and it is intended that this diploma shall be a guarantee of more than average ability and industry. The others receive certificates proportioned to what they have done, both as to quantity and quality.

Graduates in this course, who may choose to continue their studies another term, will receive directions and supervision from the Professor without fee, and can employ their time with great profit in the continuation and development of various useful subjects of investigation.

Military Engineering, embracing Reconnaissance, Military Bridges, Fortification, &c., is taught in connection with the course of Civil Engineering.

6. NATURAL PHILOSOPHY.

The instruction in this department extends through three terms, commencing with the second term of the Junior year. Students, both of the Classical and Scientific course, and those in the Engineering department, recite in two divisions, one hour being given to each, five days in the week, and the subjects succeeding each other in the following order:

JUNIOR YEAR.

Second Term.—Statics and Dynamics.—(Jackson.)

Third Term.—Hydrostatics, Hydrodynamics, Pneumatics, Heat, Steam, —(Jackson.)

SENIOR YEAR.

First Term.—Optics.—(Jackson.)

Sound, Electricity, Magnetism, Galvanism, Electro-Magnetism.—(Foster.)

To secure at once precision and fullness, the instruction is mainly given from recently prepared text books. Frequent lectures are however delivered, either to furnish illustrations and proof of principles by experiment, or to amplify particular subjects. Thus, after the completion of Statics and Dynamics, several lectures are devoted to mechanical "Work," in order that not only the construction and theory, but modes of determining the *efficiency* of the various hydraulic and pneumatic machines may be understood. All lectures are required to be written out by the students in full from the notes, and submitted for inspection. Numerous problems are also given on all the subjects, and are mostly so constructed that the calculated results may be verified by experiments before the class. Both to test the accuracy of the knowledge gained, and to ensure its ready command, several written examinations are required in each term, usually near its close.

A class of those wishing further knowledge of Mechanism and of Mechanical Work, read (in the original) the *Mêcanique Appliquée* of Sonnet. To learn the application of the Differential and Integral Calculus to Mechanics, the students of the Scientific and Engineering courses recite daily, during the Third Term Senior, select portions of Boucharlat's Mechanics.

In most of the branches included in this department the apparatus is sufficient for very complete experimental illustrations.

7. CHEMISTRY.

In the Undergraduates' department Chemistry is taught by daily lectures and recitations: during the Third Junior term on inorganic Chemistry; and during the First Senior term on organic and agricultural Chemistry.

Undergraduates are also permitted to attend the daily two-hour-course of experimental Chemistry at the laboratory; for which there is an extra charge of $12 per term for chemicals and use of laboratory, and $1 for use of apparatus.

The NOTT *Laboratory* is open for special students, in all branches of Chemistry; particularly students of Agriculture, Medical students, Pharmaceutists, Manufacturing Chemists, Mineralogists, students of Medical Jurisprudence, etc.

Students who desire to devote but a portion of their time to Chemistry, can pursue at the same time other studies in the collegiate courses. No previous knowledge of the science is required, though highly desirable.

The plan of study depends upon the object of the student, his previous knowledge, and the time at his disposal. It is designed, however, to give a complete professional education in Chemistry to such as may desire it.

A complete course, lasting two years, is arranged thus:

First Term.—Qualitative Analysis; comprising general testing, detection of poisons, and Blowpipe Analysis.

Second Term.—Chemical Preparations.

Third Term.—Quantitative Analysis.

Fourth Term.—Quantitative Analysis (continued), Volumetric Analysis and Assaying of Ores.

Fifth Term.—Organic Chemistry.

Sixth Term —Agricultural and Medical Chemistry.

The Laboratory will be open to its special students every day in the week, except Saturday, from 9 A. M. to 5 P. M.

Charge for full course, $35 per term; for half-day course, $25 per term. $1 per term is charged for the use of apparatus.

Students can not enter the Laboratory for less than one term.

Students are not required to purchase the apparatus which they use, but are charged for what they consume and injure. There is no

charge for chemicals, except for gold, silver and platinum solutions, and alcohol. The above extras amount to from $2 to $10 per term.

For fuller information, address Prof. C. F. CHANDLER.

8. NATURAL HISTORY.

MINERALOGY is taught during the Winter Term by a daily course of practical lessons, illustrated by a complete set of crystal models, and a series of six hundred specimens for determination by crystallographic and blowpipe examination.

GEOLOGY is taught during the Second Senior (Winter) Term by a daily course of lectures and recitations.

The facilities for instruction in these departments have recently been largely increased by the addition to the College Cabinet of the WHEATLEY *Collection of Minerals and Shells*, purchased by E. C. DELAVAN, Esq., for ten thousand dollars, and by him presented to the College. About three thousand of its specimens have been systematically arranged and labeled for the purpose of instruction, and form a collection which stands among the first in the country in value and interest. In addition, a suit of the ores of the useful metals, comprising about a thousand specimens, have been arranged to illustrate their mode of occurrence and geographical distribution. The College is also in possession of a valuable series of specimens, representing the rocks of the State of New York, and some of the most important fossils. The Cabinet of recent Shells, which forms a part of the Wheatley collection, comprises about five thousand species; among which the land and fresh water genera are peculiarly well represented.

BOTANY is taught during the Summer Term, both from text book (Gray's) and practically in the field.

9. RHETORIC AND CRITICISM,

In this department there are daily recitations during the Third Term Sophomore and First and Second Terms Junior. One day in each week is devoted to the delivery of original declamations. At each recitation two or more essays are required to be read. Attention is given to the practical application of the rules taught, and the students are frequently exercised in the correction of passages which violate the principles of their daily study. Lectures on various subjects connected with this department are also occasionally delivered.

10. POLITICAL ECONOMY.

A course of *Lectures* on this subject will be delivered during the three Terms of the Junior year, and the Third Term of the Senior year.

11. MENTAL AND MORAL SCIENCE.

The order of instruction pursued in these studies is given in the text books used; but a wide margin is filled in by Lectures, and oral comments, explanations and illustrations. The end sought to be secured is a systematic and not merely elementary or fragmentary apprehension of the subject in hand, each part having its relation to a whole, and its connection and place in the whole being necessary to be apprehended in order to any adequate knowledge of the fact itself. The student is not only examined from the text book, but leading questions are put as the lesson proceeds, designed to bring out his own powers, and to awaken individual thought and independent reflection. The class are all required to write on themes furnished in the order of the course, and given out by the teacher to separate divisions successively. It is made the design of this composition to secure correct and clear thought, expressed distinctly and definitely, and to keep the attention precisely to the point while giving completeness to the whole discussion, with less regard in this exercise to rhetorical embellishment. Other authors are referred to as desirable for the student to read as opportunity may be afforded, and his attention is directed to such as treat on the same or collateral topics. Different views and theories are noticed and examined as the course proceeds, and the whole ground of investigation on the topic in hand, is laid open before the class as completely as may be. The constant aim is to cultivate the habit of manly and independent though careful and patient reflection.

MENTAL PHILOSOPHY (Hickok's) is taught in the First Term of the Senior year. MORAL PHILOSOPHY (Hickok's) is taught in the Senior Second Term.

A synoptical view of the preceding departments of instruction will be found on the four following pages.

COURSE OF STUDIES.

CLASSICAL COURSE.

FRESHMAN CLASS.

FIRST TERM.

Livy—Three Books,.....*Lincoln.*
Xenophon's Anabasis—Two Books,.....*Owen.*
Algebra (to square root),.....*Bourdon.*

SECOND TERM.

Horace—Three Books of Odes, Prosody,.....*Lincoln.*
Xenophon—Memorabilia.
Algebra (to *n*th root),.....*Bourdon.*

THIRD TERM.

Cicero de Officiis—Two Books,.....*Thatcher.*
Homer—Iliad—Four Books,.....*Owen.*
Geometry—Plane—Five Books,.....*Legendre.*
Throughout Freshman year, Exer's in Latin and Greek Composition..*Arnold.*

SOPHOMORE CLASS.

FIRST TERM.

Tacitus—History—Two Books; or, Germania and Agricola.
Homer—Odyssey—Six Books,.....*Owen.*
Geometry—Solid—Four Books,.....*Legendre.*

SECOND TERM.

Juvenal (1st, 3d and 10th) and Terence (one.)
Euripides—One or Two Dramas.
Algebra (completed).....*Bourdon*

THIRD TERM.

Rhetoric, Composition and Declamation,.....*Blair.*
Sophocles—Two Dramas.
Trignometry—Plane and Spherical,.....*Jackson.*
Horace—Satires and Epistles—(Voluntary.)
Throughout Sophomore year, Exercises in translating Greek into Latin.

COURSE OF STUDIES.

SCIENTIFIC COURSE.

Candidates for the regular Scientific Course may prosecute the studies of the Freshman year in the "Union School" connected with the College, or with any competent teacher, and for admission to the Sophomore year will be examined on English Grammar, Practical Arithmetic (Davies' "University"), Algebra (to *n*th root), Geometry (five books), and United States History.

SOPHOMORE CLASS.

FIRST TERM.

French (Grammar),.....*Peissner, & Pujol.*
History,.....*Guizot.*
Geometry—Solid—Four Books,.....*Legendre.*

SECOND TERM.

French (Reader),.....*Pujol.*
Geometrical Draughting,.....*Mahan.*
Algebra (completed),.....*Bourdon.*

THIRD TERM.

Rhetoric, Composition and Declamation,.....*Blair.*
Land Surveying (Parts 1, 2, 3),.....*Gillespie.*
Trigonometry—Plane and Spherical,.....*Jackson.*
Draughting—(Voluntary),.....*Mahan.*
French—(Voluntary) *Moliere* or *Racine.* Italian–(Voluntary), *Peissner & Rio.*
Botany—(Voluntary),.....*Gray.*

CLASSICAL COURSE.

JUNIOR CLASS.

FIRST TERM.

Æschylus—Two Dramas.
Rhetoric, Composition and Declamation (continued),.....*Blair.*
Conic Sections, *Jackson;* or, Analytical Geometry,.....*Davies.*

SECOND TERM.

Cicero—Tusculans—Three Books.
Rhetoric (continued)—*Lectures.*
Statics and Dynamics,.....*Jackson.*

THIRD TERM.

Plato—Phædon, or Gorgias.
Hydrostatics, Hydrodynamics, Pneumatics, Heat, Steam,.....*Jackson.*
Chemistry (Inorganic),.....*Fownes.*

SENIOR CLASS.

FIRST TERM.

Plato contra Atheos—(Voluntary),.....*Lewis.*
Optics,.....*Jackson.*
Sound, Electricity, Magnetism, Galvanism, Electro-Magnetism,.....*Foster.*
Mental Philosophy,.....*Hickok.*
Chemistry (Organic and Agricultural)—*Lectures.*

SECOND TERM.

Aristophanes—Birds or Clouds,.....*Felton.*
Astronomy,.....*Gummere.*
Moral Philosophy,.....*Hickok.*
Geology,.....*Dana.*

THIRD TERM.

National and Constitutional Law,.....*Kent.*
Anatomy and Physiology—*Lectures*
Lectures on Literature, Political Economy, Architecture, &c.

SCIENTIFIC COURSE.

JUNIOR CLASS.

FIRST TERM.

German (Grammar),.....*Peissner.*
Rhetoric, Composition and Declamation (continued),.....*Blair.*
Conic Sections, *Jackson;* or Analytical Geometry,.....*Davies.*
Descriptive Geometry—(Voluntary),.....*Heather's Monge.*

SECOND TERM.

German (Reader),.....*Peissner, & Heyse.*
Rhetoric (continued)—*Lectures.*
Statics and Dynamics,.....*Jackson.*
Differential and Integral Calculus.—(Voluntary),.....*Davies.*
Draughting (continued)—Voluntary—*Lectures.*

THIRD TERM.

German (Literature),.....*Peissner.*
Chemistry (Inorganic),.....*Fownes.*
Hydrostatics, Hydrodynamics, Pneumatics, Heat, Steam,.....*Jackson.*
Analytical Mechanics—(Vol.) *Boucharlat.* Ap'd Mech's—(Vol.)—*Lectures.*
Draughting (continued)—(Voluntary)—*Lectures.*

SENIOR CLASS.

FIRST TERM.

Optics,.....*Jackson.*
Sound, Electricity, Magnetism, Galvanism, Electro-Magnetism,.....*Foster.*
Mental Philosophy,.....*Hickok.*
Chemistry (Organic and Agricultural)—*Lectures.*
Surveying (continued) and Levelling (Voluntary),.....*Gillespie.*

SECOND TERM.

Astronomy,.....*Gummere.*
Moral Philosophy (concluded),.....*Hickok.*
Geology,.....*Dana.*
Mineralogy (Determinative),.....*Dana.*
Spanish—(Voluntary),.....*Peissner, & Salva.*
Engineering—Mensuration, etc.—(Voluntary)—*Lectures.*

THIRD TERM.

National and Constitutional Law,.....*Kent.*
Anatomy and Physiology—*Lectures.*
Lectures on Literature, Political Economy, Architecture, &c.
Higher Surveying and Engineering Statics—(Voluntary),.....*Gillespie.*

☞ A complete list of the studies of the Civil Engineering Course (which continues two terms longer) is given on page 14.

IV. MISCELLANEOUS INFORMATION.

1. Payments and Expenses.—The College bills must be paid at the beginning of each term. In all cases where such payment is not made, the proper officer is instructed to inform parents and guardians. Students, unless from another college, pay for entrance into the Freshman class, $5; into the Sophomore class, $7; into the Junior class, $9; into the Senior class, $12. No retrospective expense is incurred by entering in advance.

The College bills for Tuition, Room rent, &c., are $20 per term. When the College rooms are filled, $3 per term is deducted from the bills of the students who are thereby obliged to room elsewhere; otherwise no deduction is made. Board can be had at from $2.00 to $3.00 per week. In "Boarding Clubs" it may be much less. Fuel and lights about $10 per year. Washing, $3 per term. Furniture can be bought and re-sold on leaving, or hired of the College servants.

Young men in straitened circumstances and of good character, on presenting certificates to that effect, are assisted more or less by the Trustees of the College, as long as they study and conduct in a satisfactory manner. The whole expense for tuition, board, fuel, lights, etc., of students so assisted, need not, where economy is used, exceed $130 per annum.

2. Residence and Discipline.—Students are expected to reside in the main buildings, which are occupied by the President and Professors and their respective families. No student can reside elsewhere without special permission.

The discipline of the institution is moral and parental. Disgraceful punishments are not inflicted; but no young man who indulges in gaming, intemperance, or other vice, who is absent from his room at night, or who habitually neglects his studies, can be allowed to remain.

Parents or guardians are requested either to appoint a special guardian for their sons or wards, or to deposit all funds intended for

their use with the Treasurer or Registrar of the College, who act as fiscal guardians without charge.

An account of the delinquencies of every student, and of his daily attendance, conduct and scholarship, is kept by the Registrar. The result, determining his place on the Merit Roll, is reported at the close of each term, or more frequently, to his parent or guardian.

Every student is required to return punctually at the opening of each term and report himself at the Registrar's office; and until so reported will be considered as absent, and so marked on his bill. A similar report, and for the same reason, is required after any temporary absence from sickness or by permission.

Parents will please inform the Registrar, by their sons, what church they wish them to attend.

3. Freshman Scholarships.—*Prize Scholarships* have been founded by President E. Nott, to be awarded to candidates who shall severally pass such thorough examinations as shall entitle them to the distinction. The incumbents of these scholarships will receive, at the end of each collegiate year, a Gold Medal or its value in cash, as they may elect, to wit: at the end of the Freshman year, fifteen dollars; twenty at the end of the Sophomore year; twenty-five at the end of the Junior year, and thirty at the end of the Senior year, provided that they shall comply with the rules prescribed by the founder of the scholarships; among which is the pledge on the part of each, that he will neither use intoxicating liquor as a beverage, nor tobacco in any of its forms, so long as he shall continue to receive the avails of the scholarship which has been awarded to him.

4. The Blatchford Oratorical Medals.—Hon. R. M. Blatchford has recently founded an Oratorical Prize, consisting of two Gold Medals, of the value of the income of $1,000, to be given to the two members of the graduating class who shall deliver the best orations, "regard being had alike to their elevated and classical character, and to their graceful and effective delivery." Accordingly, two medals will be awarded, one of the value of $40 to the best written and spoken oration, and one of the value of $30 to the second best; to be determined by a committee appointed for

that purpose, their award to be announced to the audience at the close of the exercises.

5. The Warner Prize.—Hon. H. G. Warner of Rochester, has founded an Annual Prize, consisting of a piece of Silver Plate of the value of $50, to be awarded to "The Graduate of Union College who shall reach the highest standing in the performance of collegiate duties, and also sustain the best character for moral rectitude and deportment, without regard to religious practice or profession." The prize is to be awarded on Commencement day by the officers of the College, in accordance with certain conditions prescribed by the donor.

6. Vacations.—There are three vacations annually; one of six weeks immediately after Commencement, which is on the Thursday following the fourth Wednesday of July; one of four or five weeks from about the 1st of December, and one in April. Students are expected to return to their friends during vacations; and when parents can not provide for this, the President should be apprised of it, that arrangements may be made in season to secure them proper residences.

7. Commencement Speakers.—Students are reminded that the relative position occupied by the names of the members of the graduating class on their final merit roll, depends entirely on the standing taken by each respectively on his examination when entering the class, and on their subsequent relative diligence, punctuality, gentlemanlike demeanor and moral conduct.

CATALOGUE

OF

STUDENTS.

ABBREVIATIONS.

C Classical Students. *S* Scientific Students. *U* University Students.

x Candidates for Matriculation.

‡ Candidates Matriculated, subject to conditions.

a Attendance not satisfactory. *c* Conduct not satisfactory.

n Absent during the Term, or from examination—to be hereafter examined.

— Deficient in one study at Examination.

* Dead.

† Left College.

N—North College.

S—South College

N Colon—North Colonnade.

S Colon—South Colonnade.

SENIOR CLASS.

	NAMES.	RESIDENCES.	ROOMS.
S	EDWARD AUTEN,	Princeville, Ill.	4 S. Colon.
C	CHARLES M. BABCOCK,	Utica.	175 Union st.
S	GEORGE W. BAKER,	Schuyler's Lake.	
S	WILLIAM H. BARCLEY,	Knox.	
C	JAMES L. BOTHWELL,	Groton.	
S	CALVIN A. BREWER,	Greene.	
C	ELKANAH A. BRIGGS,	Castleton.	
†*S*	WILLIAM M. BRISBEN,	Sunbury, Pa.	
C	WILBER F. BROMFIELD,	Canajoharie.	175 Union st.
†*C*	PETER H. BROOKS,	Schenectady.	
†*S*	J. CADY BROWN,	Minaville.	
C	WILLIAM R. BROWN,	Lawrence, Kansas.	
C	DAVID A. BURNET,	New Windsor.	23 N.
C	J. IRVING BURNS,	Yonkers.	76 Fonda st.
C	JOHN BUTLER,	Lewiston.	
†*U*	DANIEL H. CALKINS,	Pulaski.	
S	SEYMOUR D. CARPENTER,	Clifton Park.	84 Canal st.
†*S*	CHARLES M. CARTER,	Ballston.	
C	SAMUEL W. CLARKE,	Newcastle, Me.	
†*C*	HENRY N. COPP,	Troy.	
S	ABEL R. CORBIN, JR.,	McDonough.	
nS	JOHN Q. A. CROUNSE,	Argusville.	
C	STEPHEN B. CULVER,	Sandy Hill.	31 N.
†*C*	JOHN S. DELAVAN,	South Ballston.	
†*C*	JOHN H. DENNIS,	Stillwater.	
†*S*	GEORGE P. EDDY,	Lewiston.	
C	SAMUEL EDWARDS,	Ballston.	29 N.
†*S*	RICHARD ESSELSTYN,	Hudson.	

	NAMES.	RESIDENCES.	ROOMS.
†*C*	MARTIN L. FENTON,	Frewsburg.	
C	ORLANDO P. FISK,	Sturgis, Mich.	
C	GEORGE W. FITCH,	Cambridge.	
†*C*	ALFRED FOOTE,	Geneva.	
C	DAVID GEBHART,	Williamsport, Pa.	24 N.
†*C*	JOHN R. GEORGE,	Alexandria, La.	
†*C*	HENRY B. GRAHAM,	Montgomery.	
†*U*	FRANK H. GRANT,	New York.	
†*C*	JOHN C. GRAVES,	Herkimer.	
S	FREDERICK S. GRAY,	York.	11 N.
C	CORNELIUS A. GROOT,	Auburn.	
C	HIRAM D. HALL,	Elyria, Ohio.	76 Fonda st.
C	GEORGE HARKNESS,	Kortright.	
†*U*	JAMES HAVEMEYER,	New York.	
†*C*	JOHN E. HAZELTON,	Chester, N. H.	
C	OLIVER HEMSTREET,	Carlisle.	31 N.
S	CHESTER P. HODGE,	Le Raysville, Pa.	
†*U*	PETER S. HOLLOWAY,	Henderson, Ky.	
C	BOARDMAN S. HOUGH,	West Leyden.	
†*C*	LEANDER J. HOUSE,	Smyrna.	
C	SAMUEL B. HOWE,	Groton.	
S	AUGUSTUS HUBBARD,	Champion.	
†*C*	OVA S. HURLBERT,	Madrid.	
C	MORTIMER A. HYDE,	Auburn.	
C	BRYAN JOHNSON,	Utica.	
nC	JAMES W. JOHNSTON,	Stewiacke, Nova Scotia.	
S	MESHACH T. JONES,	Remsen.	
†*S*	JAMES T. JOSLIN,	Schenectady.	
C	EDWARD JUDSON,	Schenectady.	11 S.
C	J. RUSELLE KINNEY,	Hudson.	16 Lafayette st.
S	LEVI A. LAPHAM,	Princeville, Ill.	5 S. Colon.
S	JOSEPH M. LAWSON,	West Troy.	
C	DAVID N. LEWIS,	Wells, Vt.	8 N.
†*S*	JEDUTHAN H. LINSAY,	Greensboro', N. C.	
C	JEREMIAH H. LITTLE,	Grape Grove, Ohio.	
†*U*	JOHN S. LOCKWOOD,	Camden, Del.	

	NAMES.	RESIDENCES.	ROOMS.
C	Harvey S. Loper,	Maltaville.	
†*C*	Nicoll Ludlow,	Islip.	
†*S*	Joseph McConnell,	Pontiac, Mich.	
†*S*	David C. W. McCorkle,	Wilmington, Del.	
†*U*	Elbridge W. Merritt,	Williamsburgh, Mass.	
†*U*	Amos K. Montague,	Henderson.	
†*C*	Alexander B. Nelson,	Cambridge.	
†*S*	Henry W. Nichols,	Brookfield, Mass.	
S	Elbert O. Noble,	Westfield, Mass.	67 Lafay. st.
S	Henry E. Ogden,	Walton.	
†*C*	John B. G. O'Neil,	Fernandina, Fla.	
C	A. Overfield, Jr.,	Marshall's Creek, Pa.	16 Laf. st.
†*C*	Gabriel H. Parkhurst,	Florida.	
†*S*	Joseph T. Patch,	Collins.	
†*U*	Hiland E. Paul,	Wells, Vt.	
C	Fletcher C. Peck,	Nunda.	
S	Ridgley C. Powers,	Mecca, Ohio.	13 N.
**C*	William J. Quick,	Rotterdam.	
C	Edward H. Ripley,	Centre Rutland, Vt.	
†*S*	Carlton B. Rogers,	Lexington, Ky.	
C	William H. Roshong,	New Berlin, Pa.	24 N.
S	George Salisbury,	Castile.	67 Lafayette st.
†*C*	Charles L. Sanford,	Middleburgh.	
†*C*	William Scofield, Jr.,	Hadley.	
S	Theodore L. Scott,	Waterford.	116 Union st.
C	William H. Shankland, Jr.	Syracuse.	
C	Henry W. Sherrer,	Fair Hill, Md.	
C	John E. Sherwood,	Glenville.	
S	Lybrand Sill,	Whitestown, N. J.	
C	James G. Slenker,	New Berlin, Pa.	
S	Elliott T. Slocum,	Trenton, Mich.	
†*U*	Eugene A. Smalley,	Burlington, Vt.	
†*C*	James S. Smart,	Cambridge.	
U	Edmond B. Smith,	Franklin.	
S	Edwin F. Smith,	Reading, Pa.	38 N.
†*C*	George L. Smith,	Poundridge.	

	NAMES.	RESIDENCES.	ROOMS.
†*S*	Robert B. Smith,	Marathon.	
†*S*	Hiram Snyder,	Rosendale.	
†*S*	William Soaper, Jr.,	Henderson, Ky.	
C	Walter Starbuck,	Troy.	
C	Oliver P. Steves,	North Chatham.	11 N.
†*C*	William H. S. Stoller,	Johnstown.	
S	Thomas L. Sturtevant,	Winthrop, Me.	3 Romeyn st.
†*S*	Charles Styer,	Norristown, Pa.	
nC	Henry L. Teller,	Brooklyn.	
†*S*	Samuel S. Thomas,	Springville, Pa.	
C	James Thompson,	South Galway.	17 S.
C	Charles E. Van Allen,	West Perth.	25 Franklin st.
†*U*	Dory B. Vanderveer,	Amsterdam.	
C	Andrew Vanderzee,	Coeymans.	29 N.
†*S*	Rodney S. Vedder,	Schenectady.	
†*C*	Harrison E. Webster,	Clayville.	
†*C*	David G. Wellington,	McGrawville.	
U	Andrew B. Williams,	Knox.	
C	Ezra Williams,	Tioga, Pa.	
S	John M. Wilson,	New Holland, O.	188 Union st.
C	Benjamin F. Wright,	Sauquoit.	9 N.
C	Henry Wright,	Southport.	
C	Samuel Yeoman,	Franklin.	
†*C*	John D. Young,	Springfield.	

JUNIOR CLASS.

	NAMES.	RESIDENCES.	ROOMS.
C	DANIEL T. ARBUCKLE,	Delhi.	16 N.
C	A. WATSON ATWOOD,	Philadelphia, Pa.	9 Centre st.
S	CHARLES S. AUSTIN,	Peoria, Ill.	43 N.
S	THADDEUS R. AUSTIN,	Peoria, Ill.	43 N.
†*S*	LEMUEL AUTEN,	Princeville, Ill.	
S	HOMER E. AYLESWORTH,	Burlington.	9 S.
†*C*	WILLIAM P. BARD,	Reading, Pa.	
U	BRADFORD BARNER,	Damascus, Pa.	20 S.
C	GEORGE A. BEATTIE,	Hebron.	46 S.
C	HENRY N. BECKWITH,	Sutton, Vt.	12 Liberty st.
C	LEWIS H. BELLINGER,	Root.	6 S.
U	FREDERICK J. BENNET,	Gibson, Pa.	12 S.
C	DAVID BLAKELY, JR.,	Meredith.	7 N.
†*C*	DANIEL BOSWORTH,	Baltimore, Md.	
**C*	ARNOLD BROWN,	Corning.	
†*C*	JOHN P. CABEL,	Henderson, Ky.	
†*S*	ANGUS CAMERON, JR.,	Pavilion.	
U	EDWARD CARY,	Albany.	5 S.
C	CHARLES G. CLARK,	Troy.	124 Liberty st.
‡*C*	HERMON CONANT,	Richmond, Me.	46 N.
S	SANFORD C. CONDE,	West Troy.	188 Union st.
†*C*	WILLIAM C. CORBET,	Putnam.	
†*U*	SAMUEL J. DAY,	Marlboro', Conn.	
C	GEORGE W. DENTON,	North Hempstead.	16 S.
C	ROBERT DONALD,	Mount Vernon, Wis.	44 S.
nC	JACOB W. DUBOIS,	Rosendale.	
C	CHARLES L. EASTON,	Lowville.	10 N.
S	THOMAS H. FEAREY,	Albany.	44 S.

	NAMES.	RESIDENCES.	ROOMS.
C	WILLIAM H. FIELD,	New York.	44 N.
†*C*	NELSON O. FREEMAN,	Wolcott, Vt.	
†*C*	EDWARD FROTHINGHAM,	Johnstown.	
†*C*	EUGENE T. GARDNER,	Troy.	
†*S*	GEORGE C. GIBBS, JR.,	New York.	
†*S*	JAMES F. GREGORY,	West Troy.	
nC	RICHARD A. HARKNESS,	Kortright.	15 N.
†*C*	CHARLES E. HENDRICKSON,	New Egypt, N. J.	
‡*C*	CHARLES M. A. HEWES,	Lawrence, Mass.	38 N.
†*C*	WILLIAM S. HOLLOWAY,	Henderson, Ky.	
†*C*	JOHN J. HOLLOWAY,	Henderson, Ky.	
†*C*	OSCAR F. HORNER,	New Egypt, N. J.	
†*U*	WILLIAM T. HURT,	Lexington, Ky.	
†*C*	WILLIAM HUTTON, JR.	Putnam.	
†*U*	E. EMORY JOHNSON,	East Haddam, Conn.	
nC	JAMES G. JOHNSON,	Washington, D. C.	183 Union st.
†*S*	ALVAH R. JORDAN,	Morris, Ill.	
†*C*	CLARENCE P. KIDDER,	Wilkesbarre, Pa.	
†*U*	JAMES F. KNOWLES,	Greenville.	
†*C*	EDWIN MALANEY,	Trenton.	
C	BRADLEY MARTIN,	Albany.	39 N.
C	SAMUEL C. L. MOTT,	Sing Sing.	43 S.
†*C*	HENRY E. MUNGER,	Granville.	
C	THOMAS S. MURDOCK,	Kortright.	16 N.
C	AMASA J. PARKER, JR.,	Albany.	41 N.
†*C*	GEORGE W. PARKHURST,	Troy.	
S	CHARLES E. PEARCE,	Auburn.	20 Liberty st.
C	HIRAM E. PHELPS,	Crown Point.	38 S.
‡*S*	VINCENT M. PORTER,	Niagara Falls.	149 State st.
C	J. FRANK POTTS,	White Hall, Ill.	41 S.
†*U*	SMITH PRATT,	Hopewell.	
†*U*	MORRIS R. QUACKENBUSH,	Pike.	
S	HENRY C. RANDOLPH,	Shiloh, N. J.	41 S.
C	DANIEL C. REEVE,	Middletown.	24 S.
C	ISAAC E. ROBERTS,	Lancaster, Pa.	42 S.
C	JOHN B. ROBINSON,	Malden, Mass.	38 S.

	NAMES.	RESIDENCES.	ROOMS.
†*C*	SOLOMON W. RUSSELL,	Greenwich.	
‡*C*	ELIHU T. SANFORD,	Schenectady.	77 Union st.
nS	GEORGE F. SAWYER,	West Kendall.	76 Fonda st.
†*C*	HENRY R. SCHWERIN,	New York.	
nS	JOHN H. SERVISS,	Glen.	18 N.
†*C*	HENRY H. SHEPARD,	Brookfield, Io.	
C	ALSON I. SHERWOOD,	Ballston Spa.	17 Jay st.
†*U*	HARVEY A. SMITH,	Enfield, N. H.	
C	WILLIAM H. SMITH,	Farmington, Conn.	4 S.
C	HORATIO N. SNOW,	Spraker's Basin.	42 S.
nC	GEORGE S. STEVENS,	Catskill.	
C	GEORGE M. STEWART,	Wales, Mass.	17 Jay st.
†*S*	JOSEPH S. STORY,	Flatbush.	
C	EDWARD C. TAINTOR,	Buffalo.	13 S.
†*S*	BENJAMIN L. TEMPLE,	Templeville, Md.	
†*C*	EDWARD TERRY,	Henderson, Ky.	
C	FRANK THOMPSON,	Ballston Spa.	37 N.
†*U*	DANIEL D. THURBER,	Pontiac, Mich.	
C	DAVID N. VANDERVEER,	Schenectady.	34 State st.
†*C*	HENRY P. VOSBURGH,	Frankville.	
S	GERRIT D. VAN VRANKEN,	Clifton Park.	5 N.
†*C*	ALBERT VAN WAGNER,	Poughkeepsie.	
C	HOMER S. WATERBURY,	Schoharie.	9 S.
C	JOHN WRIGHT, JR.,	Wilmington, Del.	48 S.
C	JAMES YATES,	Chicago, Ill.	118 Liberty st.

SOPHOMORE CLASS.

	NAMES.	RESIDENCES.	ROOMS.
†*U*	James A. Allis,	Syracuse.	
U	Pliny W. Bartholomew,	Hermon.	30 S.
C	William H. Beal, Jr.,	Schenectady.	67 Liberty st.
nC	George T. Bradshaw,	Princetown.	2 S.
†*S*	John S. Bradley,	Lee, Mass.	
S	Thomas W. Burnham,	Cleveland, Ohio.	45 N.
†*C*	Richard J. Bush,	San Francisco, Cal.	
†*C*	James D. Clyde,	Cherry Valley.	
S	Sidney T. Cornell,	Jonesville.	5 N.
nS	Henry A. Crary,	Knoxville.	
S	D. Starks Crumb,	Bloomfield, Mo.	2 S. Colon.
C	Elisha Curtiss,	Sandy Creek.	24 S.
‡*C*	Alexander Davidson,	Buffalo.	12 N.
C	William F. Doig,	Bovina.	7 N.
**S*	Charles A. Dryer,	Hoboken, N. J.	
nS	Anson D. Fessenden,	Townsend, Mass.	
†*C*	James W. Fisher,	Newburgh.	
C	Samuel H. Gleason,	Barnet, Vt.	
S	Walter N. Gourlay,	Hoboken, N. J.	173 Union st.
C	Henry Graham,	Wilna.	171 Union st.
†*C*	Jared Hasbrouck,	Kingston.	
S	Francis Heermance,	Kinderhook.	180 Union st.
C	Albert Haywood,	San Francisco, Cal.	113 Liberty st.
C	Bartholomew Higgins,	Waterford.	23 S.
C	Jacob M. Howard, Jr.,	Detroit, Mich.	
C	Alexander S. Hoyt,	West Milton.	62 Lafayette st.
C	Edward A. Judson,	Lansingburgh.	11 S.
†*C*	Archibald Kelly,	Johnstown.	

	NAMES.	RESIDENCES.	ROOMS.
C	Samuel J. Koontz,	Clear Spring, Pa.	29 S.
C	Phineas S. Lamb,	Fort Ann.	39 S.
C	Charles F. Lewis,	Schenectady.	21 S.
C	James O. Liebenau,	Lloyd.	26 S.
S	Charles W. Lind,	Porto Rico, W. I.	174 Union st.
C	Charles B. Loomis,	Buffalo.	42 N.
S	Archibald McIntyre,	Albany.	48 N.
C	Edward P. Magoun,	Hudson.	189 Union st.
†*C*	Edward J. Maxwell,	Amsterdam.	
C	William M. Murray,	Delhi.	14 N.
†*C*	John Nelson,	Poughkeepsie.	
‡*C*	Frederick M. Newman,	Albany.	45 N.
C	Edward W. Paige,	Schenectady.	37 N.
S	W. Appleton Potter,	Philadelphia, Pa.	174 Union st.
C	Samuel F. Prentiss,	Montpelier, Vt.	37 S.
C	T. Elder Ralston,	Indiana, Pa.	10 S.
C	William H. Reid,	Johnstown.	139 Union st.
†*C*	James H. Robinson,	Fairville.	
†*C*	Henry C. Sanborn,	Plattsburg.	
nS	Warren Schoonover,	Honesdale, Pa.	23 N.
S	George Scramling,	Oneonta.	47 S.
C	James L. Seward,	Cincinnati, Ohio.	10 S.
S	Charles M. Sheldon,	Amsterdam.	173 Union st.
C	Augustus Sherman,	New Baltimore.	39 S.
U	Brandt G. Smythe,	Newark, Ohio.	27 S.
nS	William L. Smith,	Newburgh.	
†*U*	John M. Stearns, Jr.,	Brooklyn.	
S	Theodore B. Stevens,	Cleveland, Ohio.	25 S.
C	Walter M. Stewart,	Johnstown.	42 N.
C	Daniel M. Stimson,	Albany.	41 N.
C	Charles D .S. Steinfuhrer,	Schenectady.	22 North st.
C	Alonzo P. A. Strong,	Schenectady.	25 College st.
†*C*	John Tavenner,	Winchester, Va.	
C	Charles O. Thatcher,	Schenectady.	254 State st.
S	Charles H. Tillinghaste,	New York city.	188 Union st.
C	Morris C. Tuthill,	Blooming Grove.	168 Union st.

	NAMES.	RESIDENCES.	ROOMS.
C	CHAUNCY E. VAN ALLEN,	West Perth.	25 Franklin st.
C	DAVID VAN HORNE,	Glen.	62 Lafayette st.
†*C*	MARVIN WAIT,	Norwich, Conn.	
C	SAMUEL S. WAKEMAN,	Ballston Spa.	6 N.
C	HENRY WARD,	Guilderland Centre.	6 N.
C	JACOB H. WIETING,	Middletown, Pa.	25 S.
U	LEANDER WILLIS,	Alden.	N. Colon.
S	GEORGE W. WOOD,	Walden.	25 N.

FRESHMAN CLASS.

	NAMES.	RESIDENCES.	ROOMS.
xC	William H. Albro,	Middleburgh.	20 S.
C	Elmer A. Allen,	Toledo, Ill.	23 Lafayette st.
†*C*	Charles H. Bacon,	North Lansing.	
C	Edwin S. Baldridge,	West Pawlet, Vt.	27 N.
C	Charles M. Ballantine,	Gloversville.	175 Union st.
C	Franklin W. Bartlett,	Towanda, Pa.	94 Centre st.
C	James W. Blake,	Waterford.	139 Union st.
†*C*	Charles S. Brackenridge,	Fort Wayne, Ind.	
C	Clark Brooks,	Clifton Park.	45 S.
nC	George F. Brown,	Schenectady.	49 Pine st.
†*C*	Arthur E. Chadsey,	Schenectady.	
C	Howard Cornell,	Hoosick Falls.	12 S.
‡*C*	Nathan G. Daggett,	Schenectady.	5 Front st.
nC	Edmund T. Davis,	Shiloh, N. J.	38 Barret st.
C	Isaac Dox,	Wilson.	46 S.
C	John V. Griswold,	Quincy, Ill.	15 S.
C	Francis J. Hoag,	Charleston.	45 S.
C	Marcus T. Hun,	Albany.	5 S.
C	George W. Knapp,	Buffalo.	26 N.
C	De Witt C. Le Fevre,	Northville.	175 Union st.
C	Daniel N. Lockwood,	Buffalo.	47 S.
C	Charles M. Lombard,	Elbridge.	8 S.
C	James L. Meredith,	Marshalltown, Pa.	22 N.
U	William H. Mickle,	Princetown.	
U	John V. C. Nellis,	Fort Plain.	146 Union st.
C	John K. Paige,	Schenectady.	49 Washington av.
C	Robert Payne,	Fort Miller.	Dr. Lewis.
nC	Charles H. Ripley,	Centre Rutland, Vt.	

	NAMES.	RESIDENCES.	ROOMS.
C	David C. Robinson,	Elmira.	28 Greene st.
C	Lewis H. Rockwell,	Mariaville.	29 S.
nC	Leverett G. Romaine,	Albany.	18 S.
C	Stealy B. Rosseter,	Cohoes.	81 State st.
C	Edwin Russell,	Saratoga Springs.	9 N.
C	John R. Sanson,	Princetown.	23 S.
C	Freling H. Smith,	Chatham.	32 S.
C	Mortimer Smith,	Chatham.	32 S.
C	Henry Stoddard,	New Haven, Conn.	99 Union st.
‡*C*	Harvey D. Talcott,	Oswego.	
C	James B. Taylor,	Rupert, Vt.	27 N.
**C*	Abner B. W. Tenney,	West Concord, N. H.	
C	Smith Thompson,	Poughkeepsie.	47 N.
C	Vedder Van Dyck,	Schenectady.	52 Barret st.
C	Henry C. Van Zandt,	Schenectady.	131 Front st.
xC	Albert H. Veeder,	Fonda.	14 S.
C	James B. W. Wands,	Olean.	8 S.
U	Nathan P. Wells,	Johnstown.	47 N.

STUDENTS OF CIVIL ENGINEERING.

GRADUATING CLASS.

NAMES.	RESIDENCES.	ROOMS.
William H. Angle,	Yates.	
Edwin A. Bradley,	Whitestown.	
William H. Fuller,	Palmer, Mass.	
John McGee,	Indiana, Pa.	
John V. Norton,	Plainville.	
Charles H. Odell,	Yonkers.	
Willie C. Warner, A. B.,	Nunda.	

SECOND YEAR STUDENTS.

Ezra T. Clark,	Bedford.	31 S.
Thomas H. Fearey,	Albany.	44 S.
Vincent M. Porter,	Niagara Falls.	149 State st.
John H. Serviss,	Glen.	18 N.
Edwin F. Smith,	Reading, Pa.	38 N.
Charles K. Warner,	New York.	188 Union st.
Homer S. Waterbury,	Schoharie.	9 S.

FIRST YEAR STUDENTS.

John C. Baker,	Fort Miller.	18 S.
Sidney T. Cornell,	Jonesville.	5 N.
D. Starks Crumb,	Bloomfield, Mo.	2 S. Colon.
Walter N. Gourlay,	Hoboken, N. J.	173 Union st.
Foster Morss,	Red Falls.	30 S.
Charles H. Tillinghaste,	New York.	188 Union st.
Sidney Tuttle,	New York.	180 Union st.

STUDENTS

OF

ANALYTICAL CHEMISTRY.

NAMES.	TERMS.	RESIDENCES.	ROOMS.
George W. Baker,	2,	Schuyler's Lake.	
James W. Blake,	3,	Waterford.	139 Union st.
Milton Brayton,	2, 3,	Westernville.	48 N.
Edward Cary,	2, 3,	Albany.	5 S.
William H. Chandler,	1, 2,	New Bedford, Mass.	
Albert H. Chester,	2, 3,	Buffalo.	12 N.
Albion J. Corning,	1, 2, 3,	Haverhill, Mass.	31 S.
Robert M. Fuller,	1, 3,	Schenectady.	39 Ferry st.
Frederick S. Gray,	3,	York.	11 N.
Chester P. Hodge,	2,	Le Raysville, Pa.	
John Keeney,	1,	Pike, Pa.	
J. Ruselle Kinney,	3,	Hudson.	16 Lafayette st.
Archibald McIntyre,	2, 3,	Albany.	48 N.
George Newman,	1, 2, 3,	Schenectady.	College Hill.
Henry E. Ogden,	2,	Walton.	
A. Overfield, Jr.,	3,	Marshall's Creek, Pa.	16 Laf. st.
Amasa J. Parker, Jr.,	3,	Albany.	41 N.
William A. Potter,	1, 2, 3,	Philadelphia, Pa.	174 Union st.
J. Frank Potts,	3,	Whitehall, Ill.	41 S.

NAMES.	TERMS.	RESIDENCES.	ROOMS.
Henry C. Randolph,	2,	Shiloh, N. J.	41 S.
Walter M. Stewart,	3,	Johnstown.	42 N.
Daniel M. Stimson,	3,	Albany.	41 N.
Alonzo P. A. Strong,	1,	Schenectady.	25 College st.
Gerrit D. Van Vranken,	3,	Clifton Park.	5 N.
Willie C. Warner, A. B.	1,	Nunda.	
Leander Willis,	2, 3,	Alden.	N. Colon.

SUMMARY.

SENIORS,	124
JUNIORS,	89
SOPHOMORES,	72
FRESHMEN,	46
CIVIL ENGINEERING STUDENTS,	21
CHEMICAL STUDENTS,	26
	378
REGISTERED IN TWO COURSES,	26
TOTAL,	352

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The Prize Scholarships endowed by Dr. NOTT, have been awarded to the following persons:

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TIME OF RINGING THE BELL.

FIRST TERM.	A. M.				P. M.			SECOND TERM.
COMMENCING FIRST MONDAY.	First Bell.	Prayer and Recitat. Bell.	Study Bell.	Recitation Bell.	Study Bell.	Recitation Bell.	Study Bell.	COMMENCING FIRST MONDAY.
First Week. . .	6 35	7 35	9 00	11 00	2 00	4 00	7 00	Twelfth Week.
Second Week, . .	6 35	7 35	9 00	11 00	1 55	3 55	7 00	Eleventh Week.
Third Week, . .	6 40	7 40	9 00	11 00	1 50	3 50	7 00	Tenth Week.
Fourth Week, . .	6 40	7 40	9 00	11 00	1 45	3 45	7 00	Ninth Week.
Fifth Week, . .	6 45	7 45	9 00	11 00	1 40	3 40	7 00	Eighth Week.
Sixth Week, . . .	6 45	7 45	9 00	11 00	1 35	3 35	7 00	Seventh Week.
Seventh Week, . .	6 50	7 50	9 00	11 00	1 30	3 30	7 00	Sixth Week.
Eighth Week, . .	6 50	7 50	9 00	11 00	1 20	3 20	7 00	Fifth Week.
Ninth Week, . .	6 55	7 55	9 00	11 00	1 15	3 15	7 00	Fourth Week.
Tenth Week, ...	6 55	7 55	9 00	11 00	1 10	3 10	7 00	Third Week.
Eleventh Week, . .	7 00	8 00	9 00	11 00	1 05	3 05	7 00	Second Week.
Twelfth Week, . .	7 00	8 00	9 00	11 00	1 00	3 00	7 00	First Week.
THIRD TERM, . .	6 30	7 30	9 00	11 00	2 00	4 00	Early Candle Light.	THIRD TERM.

C
Un32uIut
1862/63
1st term

CIRCULAR

AND

CATALOGUE

OF

UNION COLLEGE,

SIXTY-EIGHTH YEAR,

FIRST TERM,

1862.

CIRCULAR

AND

CATALOGUE

OF

UNION COLLEGE,

SIXTY-EIGHTH YEAR,

FIRST TERM,

1862.

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1862.

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GEORGE GILBERT, A.M.,

Tutor and Registrar.

CALENDAR, 1862-3.

THIRD TERM BEGAN	Friday,	April	25,	1862.
THIRD TERM ENDS	Friday,	July	18,	"
PHI BETA KAPPA DAY	Tuesday,	July	22,	"
GRADUATES' DAY	Wednesd'y,	July	23,	"
COMMENCEMENT	Thursday,	July	24,	"
FIRST TERM BEGINS	Friday,	Sept.	5,	"
FIRST TERM ENDS	Friday,	Nov.	28,	"
SECOND TERM BEGINS	Friday,	Jan.	2,	1863.
SECOND TERM ENDS	Friday,	March	27,	"
THIRD TERM BEGINS	Friday,	April	24,	"
THIRD TERM ENDS	Friday,	July	17,	"
PHI BETA KAPPA DAY	Tuesday,	July	21,	"
GRADUATES' DAY	Wednesd'y	July	22,	"
COMMENCEMENT	Thursday,	July	23,	"

INFORMATION.

I. COURSES OF STUDY.

There are three Courses of Study established in the institution; the Classical, the Scientific, and the University or Partial course. A three years' course for Graduates is also in preparation.

The Classical course is the usual Baccalaureate course of the College, and remains unchanged, and the degrees conferred remain the same as is customary in American Colleges.

In the Scientific course the modern languages are substituted in place of the ancient languages, and the amount of mathematical studies is increased. The degrees conferred remain unchanged; but the diploma given is in French.

In the Partial or University course, students select such studies as they please, and receive a certificate indicating their proficiency in those which they have pursued. This is in English.

There are also special courses of instruction in Civil Engineering and in Analytical Chemistry.

II. REQUIREMENTS FOR ADMISSION.

Candidates for admission must present testimonials of good moral character, and if from another college, a letter of honorable dismission or of special request. Sixteen years of age are requisite for admission; the candidate enters, however, any class for which he is qualified. As good moral deportment, as well as certain acquirements in literature, is necessary to a standing in this institution, candidates for admission will be put on probation, during which they will recite with their class, and enjoy there all the privileges of members in full standing. When sufficient time has elapsed, if their conduct be such as to warrant it, the president will sign a certificate of their admission. If not previously vaccinated, they will be required to become so before their admission.

Candidates for the Freshman Class, in the *Classical* course, must be *thoroughly* prepared in English Grammar; Arithmetic (Davies' "University," or an equivalent); Andrews & Stoddard's Latin Grammar; Cæsar's Commentaries, four books; Virgil's Æneid, six books, with the rules of Hexameter Verse; four Orations of Cicero; Sallust's Catiline; Bullions' Greek Grammar and Greek Reader. The whole, or a full equivalent, in both quantity and quality, will be strictly required. It is desirable that those intending to pursue the Classical course should enter at the commencement of the Freshman year.*

Candidates for the *Scientific* course may prosecute the studies of the Freshman year in the Union School connected with the College, or with any competent teacher; and will be examined for admission to the Sophomore year on English Grammar, Practical Arithmetic (Davies' "University"), Algebra to *n*th root, Geometry, five books, and United States History.

Candidates for any other class will also be examined in all the studies previously pursued by said class, as shown in the following course of studies.

It is very important that candidates should be thoroughly prepared, especially in grammatical and elementary knowledge. Where they have more time than is requisite for such preparation, it is desirable, for obvious reasons, that they should not anticipate subjects in the College course, but apply themselves to other studies.

Students from other colleges can not enter later than the beginning of the third term of the Senior year.

Students not candidates for a degree are examined only sufficiently to test their qualifications to pursue with advantage the course of study which they have in view.

Examinations for admission take place in presence of three officers. The regular times for such examinations are the last two days of the week preceding Commencement, and the last two days of each vacation (viz: Thursday and Friday), at 10 o'clock A. M.

* Teachers preparing students to enter College, are requested to notice that the above requirements for admission are more precisely specified than heretofore, and having been reduced to the minimum quantity, a full compliance with them will hereafter be expected.

III. DEPARTMENTS OF INSTRUCTION.

1. THE GREEK LANGUAGE AND LITERATURE.

The course of instruction in this department extends regularly through the whole of the Freshman and Sophomore years, together with the first and third terms of the Junior. In the Senior, the subject is made a regular study during one term, and in another, some Greek author is read as a voluntary exercise, when time and circumstances permit. Lectures form the greater part of the instruction in the latter part of the course. There is a gradation of aims. The Freshman year is employed almost wholly in thorough grammatical drilling. In the Sophomore year the chief object is correct and elegant translation, in which much attention is paid to what may be called the laws of correct expression, or the transfer of idiom into idiom. A constant demand is, the best English for the best Greek. Thus progress is made in the knowledge of the capacities of our own tongue, whilst the power of the ancient language is shown in a way which can never be exhibited in the un-English verbal renderings that are so commonly permitted. In the Junior year, the same object is pursued, but more attention is given to the philosophy or poetry of the classic author, as a matter of general criticism. In the time devoted to Greek in the Senior year, the latter aim is made predominant.

By steadily pursuing this course, there is found to be a manifest improvement in each succeeding class. The standard of preparation is gradually raised, the valuable educational influence of the classics is secured for the whole class, whilst great pains are taken, especially in the latter part of the course, to arouse the enthusiasm of that smaller portion who may be expected to make the ancient languages and literature a special study in after life.

The reading of the Freshman year is confined mainly to Xenophon and Homer. The Sophomore year and part of the Junior, are found from good experience, to be most profitably occupied with the Greek Dramatic Poetry, whilst in the remainder of the course the

Greek Philosophy is made the chief object of attention. One idea is never lost sight of. It is the bearing of the ancient philosophy, poetry, and mythology, upon Revelation and the Christian theology. Especially in the Junior and Senior years, is this made a prominent thought, presented not only in lectures, but in constantly calling attention to every thing by which it may be legitimately suggested.

The course of reading is frequently varied from that which is presented in the Catalogue, although the same general amount is required and the same general plan is pursued. As the instruction is in a high degree oral, bare text-books are preferred to editions with notes, although no objection is made to such helps when they can be obtained.

2. LATIN LANGUAGE AND LITERATURE.

The studies of this department embrace a select series of the Latin classics, accompanied by miscellaneous exercises, extending through the Freshman and Sophomore years, and one term of the Junior year, and arranged as indicated on pages twenty and twenty-two; though other authors are often read.

The attention of candidates for admission is directed specially to the necessity of previous thorough grammatical drilling. The chief aim of the instruction here is not to teach the mere forms of words and rules of Syntax, but to impart a knowledge of the derivations and affinities of the Latin language, its peculiarities of idiom, its equivalent constructions, its synonymous words, the force and beauty of its particles; and collaterally, of the leading features of Roman literature, history and philosophy. Instruction in these is given by informal lectures, composed of explanations and questions by the Professor, to be responded to by the student, as it is found that this course best secures the requisite amount of reading and investigation.

As books for reading and reference, Zumpt's, and Andrews and Stoddard's Latin Grammars; Schmitz's and Arnold's Histories of Rome; Smith's Dictionary of Greek and Roman Antiquities; Anthon's Classical Dictionary, and Findlay's Classical Atlas, or their equivalents, are deemed indispensable.

3. MODERN LANGUAGES.

The course of instruction in the modern languages includes thorough grammatical drilling and oral and written exercises in translation and composition, followed by the study of the grammars of the respective tongues in the original, and lectures on their literatures.

The course is thus divided :

THE GERMAN LANGUAGE is taught as a regular daily study of the Scientific course during three successive terms, beginning with the First Term Junior. The text books used are Peissner's "Grammar, Exercises and Reading Lessons;" Dr. Heyse's *Leitfaden der deutschen Sprache*, and Peissner's "Course of German Literature."

THE FRENCH LANGUAGE is made a regular daily study of the Scientific course during two successive terms, beginning with the First Term Sophomore. The text books used are Peissner's "Elements of the Romance Languages, French, Italian, Spanish;" and Louis Pujol's "*Complete French Class Book.*" A voluntary class (advanced) is formed in the following term, in which *Corneille*, *Racine*, *Molière*, or other classics, are read.

THE SPANISH LANGUAGE is a voluntary study in the Second Term Senior. The text books used are Peissner's "Romance Languages," and Salva's *Grammatica Castellana*. An advanced class may pursue this study another term, Velasquez's Reader being the text book.

THE ITALIAN LANGUAGE is taught as a voluntary study in the Third Term Sophomore. The text books are Peissner's "Romance Languages," and Rio's *Lingua Italiana*. An advanced class may pursue the study of Italian another term, Foresti's Reader, or some Italian classic, being the text book.

The hours for the recitations in the modern languages are so arranged that they may be taken by regular classical students.

4. MATHEMATICS AND ASTRONOMY.

The studies of this department are arranged as follows:

FRESHMAN YEAR.

First Term.—Algebra, to square root.—(Bourdon.)
Second Term.—Algebra, to *n*th root.—(Bourdon.)
Third Term.—Geometry—Plane; five books.—(Legendre.)

SOPHOMORE YEAR.

First Term.—Geometry—Solid; four books.—(Legendre.)
Second Term.—Algebra, completed.—(Bourdon.)
Third Term.—Trigonometry—Plane and Spherical.—(Jackson.)

JUNIOR YEAR.

First Term.—Conic Sections.—(Jackson) or
Analytical Geometry.—(Davies.)
Descriptive Geometry.—(Heather's Monge.)
Second Term.—Differential and Integral Calculus.—(Davies.)
Third Term.—Analytical Mechanics.—(Boucharlat.)

SENIOR YEAR.

Second Term.—Astronomy.—(Gummere.)

5. CIVIL ENGINEERING.

This department was founded in 1845. Its object is to give its students such instruction in the theory and practice of Civil Engineering, as to qualify them for immediate usefulness in the field and office in a subordinate capacity, and at the same time to fit them to fill satisfactorily the higher positions in the profession after a moderate amount of experience in the routine of practice. The course of instruction aims to effect this by constant exercise in mechanical draughting, instrumental field work and numerical calculation, combined with the study of text books, and lectures on the numerous subjects where books are wanting. Its facilities have recently been

greatly increased by the acquisition of numerons models and instruments from the best European sources.*

The Civil Engineering course can be taken by persons wishing to pursue it specially, by their entering as "University students," taking such collateral regular College studies as may be desirable. It is completed in two years, beginning with the Summer term, or College "Third term," about May 1st, and ending the last week in March, in time for its students to join parties then beginning the field work of the season. The fees are, for the present, the same as those of the ordinary College course.

For commencing the Civil Engineering course (about May 1st), the requirements are Arithmetic, Algebra, Geometry (plane and solid), and the execution and demonstration of the first seventy problems of Mahan's "Industrial Drawing." These last are taught with additions, in the preceding term, to those then present, both "Regular Scientific students" and prospective "Engineering students." Readiness in the common operations of Arithmetic (particularly mental calculation, cancellation and decimals), and perfect familiarity with the elements of Algebra and Geometry, are indispensable preliminaries for commencing the course with advantage. Previous practice in writing rapidly from dictation, and in making abstracts of lectures is very desirable. Any portions of the course may be taken separately by those qualified to pursue them profitably.

The subjects of the course are arranged in the order given below, so as to harmonize them with the Terms of College, and the seasons of the year suitable to field work or otherwise. The course is also so arranged and subdivided, that the more popular topics and the more specially technical ones come at different times; so that those students who desire merely a general knowledge of Civil Engineering as a part of a liberal education, and those who wish to study it professionally, can each be suitably accommodated. The instruction is also given at different hours from those of the regular recitations, so as to prevent

* Among them are these: a complete set (fifty) of the beautiful *Olivier* models of Descriptive Geometry, showing the generations, transformations and intersections of "Rule-surfaces;" the best stone-cutting models (twenty) of *L'Ecole Polytechnique;* the Topographical models of M. Bardin; his "Skew-arch" models; Mr. Doyne's dynamometer Bridge-strain model; the levels of Egault, Troughton, &c.

any interference, and to enable its special students to pursue collaterally such of the regular studies as they are found to require.

FIRST YEAR.

Summer Term.—Land Surveying; (Gillespie, Parts 1, 2, 3,) with field work, plats and calculations.
Draughting, by Plans, Elevations and Sections, or Perpendicular Projection—(Mahan.)
Trigonometry; Plane and Spherical—(Jackson.)

Fall Term.—Surveying continued; and Levelling—(Gillespie.)
Descriptive Geometry—(Heather's Monge.)
Analytical Geometry—(Davies.)

Winter Term.—Draughting, continued.
Mensuration of Engineering Structures, &c.
Statics and Dynamics—(Jackson.)
Differential and Integral Calculus—(Davies.)

SECOND YEAR.

Summer Term.—Higher Surveying.
Engineering Statics; The Strength of Materials.
Draughting, continued.
Hydraulics, Pneumatics, Heat, &c.—(Jackson.)
Analytical Mechanics—(Boucharlat.)

Fall Term.—Road Engineering; with field practice, calculation of Earth work, &c.—(Gillespie.)
Engineering Statics; The Stability of Structures.
Stereotomy; Applications of Descriptive Geometry to Stone cutting, &c.

Winter Term.—General Construction; Materials, Foundations, Masonry, Carpentry, &c.—(Mahan.)
Bridge Engineering; Plans and calculations of the Forms and Dimensions of Bridges of Wood, Iron and Stone.
Water Engineering; Canals, Water Supply, Drainage, River and Sea Coast Improvements, &c.
Geodesy; and Practical Astronomy.

The recent extension of this course demands so much time and study from those who take it, that students of the complete College "Scientific course" *cannot* pursue both at the same time. They can, however, with extra labor, combine the two by making them "overlap," distributing the extra studies of the first four terms of the above course over the last seven terms of the regular course, and then completing the C. E. course in two terms after graduating. Their extra studies would then be taken in this order: *Sophomore*, 3*d term*, Draughting; *Junior*, 1*st term*, Descriptive Geometry; *Junior*, 2*d term*, The Calculus and Draughting; *Junior*, 3*d term*, Analytical Mechanics and Draughting; *Senior*, 1*st term*, Surveying (continued) and Levelling; *Senior*, 2*d term*, Engineering Mensuration; *Senior*, 3*d term*, Higher Surveying and Engineering Statics; and in the two terms after graduating, the subjects noted in the last two terms above.

Students of only the special Engineering course are earnestly advised, if their bodily and mental strength will permit, to combine with it the modern languages and the physical science of the Regular course, including more or less Chemical practice in the Analytical Laboratory. But if their time will allow, their best plan is to enter as "Regular Scientific students," and to pursue the complete course indicated in the preceding paragraph.

At the beginning of the last term of the course, students who are candidates for a diploma are required to undergo a written examination on the leading points of all their preceding studies. Those who pass it satisfactorily, and complete similarly the remainder of the course, receive a diploma of "Graduate in Civil Engineering," and it is intended that this diploma shall be a guarantee of more than average ability and industry. The others receive certificates proportioned to what they have done, both as to quantity and quality.

Graduates in this course, who may choose to continue their studies another term, will receive directions and supervision from the Professor without fee, and can employ their time with great profit in the continuation and development of various useful subjects of investigation.

Military Engineering, embracing Reconnaissance, Military Bridges, Fortification, &c., is taught in connection with the course of Civil Engineering.

6. NATURAL PHILOSOPHY.

The instruction in this department extends through three terms, commencing with the second term of the Junior year. Students, both of the Classical and Scientific course, and those in the Engineering department, recite in two divisions, one hour being given to each, five days in the week, and the subjects succeeding each other in the following order:

JUNIOR YEAR.

Second Term.—Statics and Dynamics.—(Jackson.)

Third Term.—Hydrostatics, Hydrodynamics, Pneumatics, Heat, Steam. —(Jackson.)

SENIOR YEAR.

First Term.—Optics.—(Jackson.)

Sound, Electricity, Magnetism, Galvanism, Electro-Magnetism.—(Foster.)

To secure at once precision and fullness, the instruction is mainly given from recently prepared text books. Frequent lectures are however delivered, either to furnish illustrations and proof of principles by experiment, or to amplify particular subjects. Thus, after the completion of Statics and Dynamics, several lectures are devoted to mechanical "Work," in order that not only the construction and theory, but modes of determining the *efficiency* of the various hydraulic and pneumatic machines may be understood. All lectures are required to be written out by the students in full from the notes, and submitted for inspection. Numerous problems are also given on all the subjects, and are mostly so constructed that the calculated results may be verified by experiments before the class. Both to test the accuracy of the knowledge gained, and to ensure its ready command, several written examinations are required in each term, usually near its close.

A class of those wishing further knowledge of Mechanism and of Mechanical Work, read (in the original) the *Mècanique Appliquée* of Sonnet. To learn the application of the Differential and Integral Calculus to Mechanics, the students of the Scientific and Engineering courses recite daily, during the Third Term Senior, select portions of Boucharlat's Mechanics.

In most of the branches included in this department the apparatus is sufficient for very complete experimental illustrations.

7. CHEMISTRY.

In the Undergraduates' department Chemistry is taught by daily lectures and recitations: during the Third Junior term on inorganic Chemistry; and during the First Senior term on organic and agricultural Chemistry.

Undergraduates are also permitted to attend the daily two-hour-course of experimental Chemistry at the laboratory; for which there is an extra charge of $12 per term for chemicals and use of laboratory, and $1 for use of apparatus.

The NOTT *Laboratory* is open for special students, in all branches of Chemistry; particularly students of Agriculture, Medical students, Pharmaceutists, Manufacturing Chemists, Mineralogists, students of Medical Jurisprudence, etc.

Students who desire to devote but a portion of their time to Chemistry, can pursue at the same time other studies in the collegiate courses. No previous knowledge of the science is required, though highly desirable.

The plan of study depends upon the object of the student, his previous knowledge, and the time at his disposal. It is designed, however, to give a complete professional education in Chemistry to such as may desire it.

A complete course, lasting two years, is arranged thus:

First Term.—Qualitative Analysis; comprising general testing, detection of poisons, and Blowpipe Analysis.

Second Term.—Chemical Preparations.

Third Term.—Quantitative Analysis.

Fourth Term.—Quantitative Analysis (continued), Volumetric Analysis and Assaying of Ores.

Fifth Term.—Organic Chemistry.

Sixth Term.—Agricultural and Medical Chemistry.

The Laboratory will be open to its special students every day in the week, except Saturday, from 9 A. M. to 5 P. M.

Charge for full course, $35 per term; for half-day course, $25 per term. $1 per term is charged for the use of apparatus.

Students can not enter the Laboratory for less than one term.

Students are not required to purchase the apparatus which they use, but are charged for what they consume and injure. There is no

charge for chemicals, except for gold, silver and platinum solutions, and alcohol. The above extras amount to from $2 to $10 per term.

For fuller information, address Prof. C. F. CHANDLER.

8. NATURAL HISTORY.

MINERALOGY is taught during the Winter Term by a daily course of practical lessons, illustrated by a complete set of crystal models, and a series of six hundred specimens for determination by crystallographic and blowpipe examination.

GEOLOGY is taught during the Second Senior (Winter) Term by a daily course of lectures and recitations.

The facilities for instruction in these departments have recently been largely increased by the addition to the College Cabinet of the WHEATLEY *Collection of Minerals and Shells*, purchased by E. C. DELAVAN, Esq., for ten thousand dollars, and by him presented to the College. About three thousand of its specimens have been systematically arranged and labeled for the purpose of instruction, and form a collection which stands among the first in the country in value and interest. In addition, a suit of the ores of the useful metals, comprising about a thousand specimens, have been arranged to illustrate their mode of occurrence and geographical distribution. The College is also in possession of a valuable series of specimens, representing the rocks of the State of New York, and some of the most important fossils. The Cabinet of recent Shells, which forms a part of the Wheatley collection, comprises about five thousand species; among which the land and fresh water genera are peculiarly well represented.

BOTANY is taught during the Summer Term, both from text book (Gray's) and practically in the field.

9. RHETORIC AND CRITICISM,

In this department there are daily recitations during the Third Term Sophomore and First and Second Terms Junior. One day in each week is devoted to the delivery of original declamations. At each recitation two or more essays are required to be read. Attention is given to the practical application of the rules taught, and the students are frequently exercised in the correction of passages which violate the principles of their daily study. Lectures on various subjects connected with this department are also occasionally delivered.

10. POLITICAL ECONOMY.

A course of *Lectures* on this subject will be delivered during the three Terms of the Junior year, and the Third Term of the Senior year.

11. MENTAL AND MORAL SCIENCE.

The order of instruction pursued in these studies is given in the text books used; but a wide margin is filled in by Lectures, and oral comments, explanations and illustrations. The end sought to be secured is a systematic and not merely elementary or fragmentary apprehension of the subject in hand, each part having its relation to a whole, and its connection and place in the whole being necessary to be apprehended in order to any adequate knowledge of the fact itself. The student is not only examined from the text book, but leading questions are put as the lesson proceeds, designed to bring out his own powers, and to awaken individual thought and independent reflection. The class are all required to write on themes furnished in the order of the course, and given out by the teacher to separate divisions successively. It is made the design of this composition to secure correct and clear thought, expressed distinctly and definitely, and to keep the attention precisely to the point while giving completeness to the whole discussion, with less regard in this exercise to rhetorical embellishment. Other authors are referred to as desirable for the student to read as opportunity may be afforded, and his attention is directed to such as treat on the same or collateral topics. Different views and theories are noticed and examined as the course proceeds, and the whole ground of investigation on the topic in hand, is laid open before the class as completely as may be. The constant aim is to cultivate the habit of manly and independent though careful and patient reflection.

Mental Philosophy (Hickok's) is taught in the First Term of the Senior year. Moral Philosophy (Hickok's) is taught in the Senior Second Term.

A synoptical view of the preceding departments of instruction will be found on the four following pages.

COURSE OF STUDIES.

CLASSICAL COURSE.

FRESHMAN CLASS.

FIRST TERM.

Livy—Three Books,.....*Lincoln.*
Xenophon's Anabasis—Two Books,.....*Owen.*
Algebra (to square root),.....*Bourdon.*

SECOND TERM.

Horace—Three Books of Odes, Prosody,.....*Lincoln.*
Xenophon—Memorabilia.
Algebra (to *n*th root),.....*Bourdon.*

THIRD TERM.

Cicero de Officiis—Two Books,.....*Thatcher.*
Homer—Iliad—Four Books,.....*Owen.*
Geometry—Plane—Five Books,.....*Legendre.*
Throughout Freshman year, Exer's in Latin and Greek Composition..*Arnold.*

SOPHOMORE CLASS.

FIRST TERM.

Tacitus—History—Two Books; or, Germania and Agricola.
Homer—Odyssey—Six Books,.....*Owen.*
Geometry—Solid—Four Books,.....*Legendre.*

SECOND TERM.

Juvenal (1st, 3d and 10th) and Terence (one.)
Euripides—One or Two Dramas.
Algebra (completed).....*Bourdon*

THIRD TERM.

Rhetoric, Composition and Declamation,.....*Blair.*
Sophocles—Two Dramas.
Trignometry—Plane and Spherical,.....*Jackson.*
Horace—Satires and Epistles—(Voluntary.)
Throughout Sophomore year, Exercises in translating Greek into Latin.

COURSE OF STUDIES.

SCIENTIFIC COURSE.

Candidates for the regular Scientific Course may prosecute the studies of the Freshman year in the "Union School" connected with the College, or with any competent teacher, and for admission to the Sophomore year will be examined on English Grammar, Practical Arithmetic (Davies' "University"), Algebra (to *n*th root), Geometry (five books), and United States History.

SOPHOMORE CLASS.

FIRST TERM.

French (Grammar),.....*Peissner, & Pujol.*
History,.....*Guizot.*
Geometry—Solid—Four Books,.....*Legendre.*

SECOND TERM.

French (Reader),.....*Pujol.*
Geometrical Draughting,.....*Mahan.*
Algebra (completed),.....*Bourdon.*

THIRD TERM.

Rhetoric, Composition and Declamation,.....*Blair.*
Land Surveying (Parts 1, 2, 3),.....*Gillespie.*
Trigonometry—Plane and Spherical,.....*Jackson.*
Draughting—(Voluntary),.....*Mahan.*
French—(Voluntary) *Moliere* or *Racine.* Italian–(Voluntary), *Peissner & Rio.*
Botany—(Voluntary),.....*Gray.*

CLASSICAL COURSE.

JUNIOR CLASS.

FIRST TERM.

Æschylus—Two Dramas.
Rhetoric, Composition and Declamation (continued),.....*Blair.*
Conic Sections, *Jackson;* or, Analytical Geometry,.....*Davies.*

SECOND TERM.

Cicero—Tusculans—Three Books.
Rhetoric (continued)—*Lectures.*
Statics and Dynamics,.....*Jackson.*

THIRD TERM.

Plato—Phædon, or Gorgias.
Hydrostatics, Hydrodynamics, Pneumatics, Heat, Steam,.....*Jackson.*
Chemistry (Inorganic),.....*Fownes.*

SENIOR CLASS.

FIRST TERM.

Plato contra Atheos—(Voluntary),.....*Lewis.*
Optics,.....*Jackson.*
Sound, Electricity, Magnetism, Galvanism, Electro-Magnetism,.....*Foster.*
Mental Philosophy,.....*Hickok.*
Chemistry (Organic and Agricultural)—*Lectures.*

SECOND TERM.

Aristophanes—Birds or Clouds,.....*Felton.*
Astronomy,.....*Gummere.*
Moral Philosophy,.....*Hickok.*
Geology,.....*Dana.*

THIRD TERM.

National and Constitutional Law, ...*Kent.*
Anatomy and Physiology—*Lectures*
Lectures on Literature, Political Economy, Architecture, &c.

SCIENTIFIC COURSE.

JUNIOR CLASS.

FIRST TERM.

German (Grammar), ... *Peissner.*
Rhetoric, Composition and Declamation (continued), ... *Blair.*
Conic Sections, *Jackson;* or Analytical Geometry, ... *Davies.*
Descriptive Geometry—(Voluntary), ... *Heather's Monge.*

SECOND TERM.

German (Reader), ... *Peissner, & Heyse.*
Rhetoric (continued)—*Lectures.*
Statics and Dynamics, ... *Jackson.*
Differential and Integral Calculus.—(Voluntary), ... *Davies.*
Draughting (continued)—Voluntary—*Lectures.*

THIRD TERM.

German (Literature), ... *Peissner.*
Chemistry (Inorganic), ... *Fownes.*
Hydrostatics, Hydrodynamics, Pneumatics, Heat, Steam, ... *Jackson.*
Analytical Mechanics—(Vol.) *Boucharlat.* Ap'd Mech's—(Vol.)—*Lectures.*
Draughting (continued)—(Voluntary)—*Lectures.*

SENIOR CLASS.

FIRST TERM.

Optics, ... *Jackson.*
Sound, Electricity, Magnetism, Galvanism, Electro-Magnetism, ... *Foster.*
Mental Philosophy, ... *Hickok.*
Chemistry (Organic and Agricultural)—*Lectures.*
Surveying (continued) and Levelling (Voluntary), ... *Gillespie.*

SECOND TERM.

Astronomy, ... *Gummere.*
Moral Philosophy (concluded), ... *Hickok.*
Geology, ... *Dana.*
Mineralogy (Determinative), ... *Dana.*
Spanish—(Voluntary), ... *Peissner, & Salva.*
Engineering—Mensuration, etc.—(Voluntary)—*Lectures.*

THIRD TERM.

National and Constitutional Law, ... *Kent.*
Anatomy and Physiology—*Lectures.*
Lectures on Literature, Political Economy, Architecture, &c.
Higher Surveying and Engineering Statics—(Voluntary), ... *Gillespie.*

☞ A complete list of the studies of the Civil Engineering Course (which continues two terms longer) is given on page 14.

IV. MISCELLANEOUS INFORMATION.

1. Payments and Expenses.—The College bills must be paid at the beginning of each term. In all cases where such payment is not made, the proper officer is instructed to inform parents and guardians. Students, unless from another college, pay for entrance into the Freshman class, $5; into the Sophomore class, $7; into the Junior class, $9; into the Senior class, $12. No retrospective expense is incurred by entering in advance.

The College bills for Tuition, Room rent, &c., are $20 per term. When the College rooms are filled, $3 per term is deducted from the bills of the students who are thereby obliged to room elsewhere; otherwise no deduction is made. Board can be had at from $2.00 to $3.00 per week. In "Boarding Clubs" it may be much less. Fuel and lights about $10 per year. Washing, $3 per term. Furniture can be bought and re-sold on leaving, or hired of the College servants.

Young men in straitened circumstances and of good character, on presenting certificates to that effect, are assisted more or less by the Trustees of the College, as long as they study and conduct in a satisfactory manner. The whole expense for tuition, board, fuel, lights, etc., of students so assisted, need not, where economy is used, exceed $130 per annum.

2. Residence and Discipline.—Students are expected to reside in the main buildings, which are occupied by the President and Professors and their respective families. No student can reside elsewhere without special permission.

The discipline of the institution is moral and parental. Disgraceful punishments are not inflicted; but no young man who indulges in gaming, intemperance, or other vice, who is absent from his room at night, or who habitually neglects his studies, can be allowed to remain.

Parents or guardians are requested either to appoint a special guardian for their sons or wards, or to deposit all funds intended for

their use with the Treasurer or Registrar of the College, who act as fiscal guardians without charge.

An account of the delinquencies of every student, and of his daily attendance, conduct and scholarship, is kept by the Registrar. The result, determining his place on the Merit Roll, is reported at the close of each term, or more frequently, to his parent or guardian.

Every student is required to return punctually at the opening of each term and report himself at the Registrar's office; and, until so reported, will be considered as absent, and so marked on his bill. A similar report, and for the same reason, is required after any temporary absence from sickness or by permission.

Parents will please inform the Registrar, by their sons, what church they wish them to attend.

3. Freshman Scholarships.—*Prize Scholarships* have been founded by President E. Nott, to be awarded to candidates who shall severally pass such thorough examinations as shall entitle them to the distinction. The incumbents of these scholarships will receive at the end of each collegiate year, a Gold Medal or its value in cash, as they may elect, to wit: at the end of the Freshman year, fifteen dollars; twenty at the end of the Sophomore year; twenty-five at the end of the Junior year, and thirty at the end of the Senior year, provided that they shall comply with the rules prescribed by the founder of the scholarships; among which is the pledge on the part of each, that he will neither use intoxicating liquor as a beverage, nor tobacco in any of its forms, so long as he shall continue to receive the avails of the scholarship which has been awarded to him.

4. The Blatchford Oratorical Medals.—Hon. R. M. Blatchford has founded an Oratorical Prize, consisting of two Gold Medals, of the value of the income of $1,000, to be given to the two members of the graduating class who shall deliver the best orations, "regard being had alike to their elevated and classical character, and to their graceful and effective delivery." Accordingly, two medals will be awarded, one of the value of $40 to the best written and spoken oration, and one of the value of $30 to the second best; to be determined by a committee appointed for

that purpose, their award to be announced to the audience at the close of the exercises.

5. The Warner Prize.—Hon. H. G. Warner of Rochester, has founded an Annual Prize, consisting of a piece of Silver Plate of the value of $50, to be awarded to "The Graduate of Union College who shall reach the highest standing in the performance of collegiate duties, and also sustain the best character for moral rectitude and deportment, without regard to religious practice or profession." The prize is to be awarded on Commencement day by the officers of the College, in accordance with certain conditions prescribed by the donor.

6. Vacations.—There are three vacations annually; one of six weeks immediately after Commencement, which is on the Thursday following the fourth Wednesday of July; one of four or five weeks from about the 1st of December, and one in April. Students are expected to return to their friends during vacations; and when parents can not provide for this, the President should be apprised of it, that arrangements may be made in season to secure them proper residences.

7. Commencement Speakers.—Students are reminded that the relative position occupied by the names of the members of the graduating class on their final merit roll, depends entirely on the standing taken by each respectively on his examination when entering the class, and on his subsequent relative diligence, punctuality, gentlemanlike demeanor and moral conduct.

CATALOGUE

OF

STUDENTS.

ABBREVIATIONS.

C Classical Students. *S* Scientific Students. *U* University Students.

x Candidates for Matriculation.

‡ Candidates Matriculated, subject to conditions.

a Attendance not satisfactory. *c* Conduct not satisfactory.

n Absent during the Term, or from examination—to be hereafter examined.

— Deficient in one study at Examination.

* Dead.

† Left College.

N—North College.

S—South College.

N Colon—North Colonnade.

S Colon—South Colonnade.

SENIOR CLASS.

	NAMES.	RESIDENCES.	ROOMS.
C	DANIEL T. ARBUCKLE,	Delhi.	16 N.
C	A. WATSON ATWOOD,	New Orleans, La.	38 Barrett st.
S	CHARLES S. AUSTIN,	Peoria, Ill.	43 N.
S	THADDEUS R. AUSTIN,	Peoria, Ill.	43 N.
†*S*	LEMUEL AUTEN,	Princeville, Ill.	
S	HOMER E. AYLESWORTH,	Burlington Green.	8 N.
†*C*	WILLIAM P. BARD,	Reading, Pa.	
U	BRADFORD BARNER,	Damascus, Pa.	20 S.
C	SETH C. BEACH,	Marion.	173 Union st.
C	GEORGE A. BEATTIE,	Hebron.	8 N.
C	HENRY N. BECKWITH,	Sutton, Vt.	124 Liberty st.
C	H. LEWIS BELLINGER,	Root.	6 S.
U	FREDERICK J. BENNET,	Gibson, Pa.	
C	DAVID BLAKELY, JR.,	Meredith.	7 N.
†*C*	DANIEL BOSWORTH,	Baltimore, Md.	
**C*	ARNOLD BROWN,	Corning.	
†*C*	JOHN P. CABEL,	Henderson, Ky.	
†*S*	ANGUS CAMERON, JR.,	Pavilion.	
U	EDWARD CARY,	Albany.	
C	CHARLES G. CLARK,	Troy.	124 Liberty st.
C	ALEXANDER T. COMPTON,	Newark, N. J.	178 Union st.
‡*C*	HERMON CONANT,	Nashua, N. H.	46 N.
S	SANFORD C. CONDE,	West Troy.	188 Union st.
†*C*	WILLIAM C. CORBET,	Putnam.	
†*U*	SAMUEL J. DAY,	Marlboro', Conn.	
C	GEORGE W. DENTON,	North Hempstead.	16 S.
C	ROBERT DONALD,	Mount Vernon, Wis.	44 S.
U	JACOB W. DUBOIS,	Rosendale.	27 S.

	NAMES.	RESIDENCES.	ROOMS.
C	Charles L. Easton,	Lowville.	124 Liberty st.
S	Thomas H. Fearey,	Albany.	33 N.
C	William H. Field,	New York.	44 N.
†*C*	Nelson O. Freeman,	Wolcott, Vt.	
†*C*	Edward Frothingham,	Johnstown.	
†*C*	Eugene T. Gardner,	Troy.	
**S*	George C. Gibbs, Jr.,	New York.	
†*S*	James F. Gregory,	West Troy.	
C	Richard A. Harkness,	Kortright.	15 N.
†*C*	Chas. E. Hendrickson,	New Egypt, N. J.	
‡*C*	Charles M. A. Hewes,	Lawrence, Mass.	38 N.
†*C*	William S. Holloway,	Henderson, Ky.	
†*C*	John J. Holloway,	Henderson, Ky.	
†*C*	Oscar F. Horner,	New Egypt, N. J.	
C	Eri B. Hulbert,	Hamilton.	178 Union st.
U	Albert Hurd,	Benton.	108 State st.
†*U*	William T. Hurt,	Lexington, Ky.	
†*C*	William Hutton, Jr.,	Putnam.	
†*U*	E. Emory Johnson,	East Haddam, Conn.	
C	James G. Johnson,	Washington, D. C.	183 Union st.
†*S*	Alvah R. Jordan,	Morris, Ill.	
†*C*	Clarence P. Kidder,	Wilkesbarre, Pa.	
x C	Andrew Kirkpatrick,	New Brunswick, N. J.	
†*U*	James F. Knowles,	Greenville.	
†*C*	Edwin Malaney,	Trenton.	
C	Bradley Martin,	Albany.	39 N.
C	Samuel C. L. Mott,	Sing Sing.	43 S.
†*C*	Henry E. Munger,	Granville.	
C	Thomas S. Murdock,	Kortright.	16 N.
C	Amasa J. Parker, Jr.,	Albany.	41 N.
†*C*	George W. Parkhurst,	Troy.	
S	Charles E. Pearce,	Auburn.	20 Liberty st.
C	Hiram E. Phelps,	Crown Point.	38 S.
‡*S*	Vincent M. Porter,	Niagara Falls.	149 State st.
C	Merritt A. Potter,	West Troy.	178 Union st.
C	J. Frank Potts,	White Hall, Ill.	41 S.

	NAMES.	RESIDENCES.	ROOMS.
†*U*	SMITH PRATT,	Hopewell.	
†*U*	MORRIS R. QUACKENBUSH,	Pike.	
S	HENRY C. RANDOLPH,	Shiloh, N. J.	
C	DANIEL C. REEVE,	Middletown.	24 S.
C	ISAAC E. ROBERTS,	Lancaster, Pa.	42 S.
C	JOHN B. ROBINSON,	Malden, Mass.	38 S.
†*C*	SOLOMON W. RUSSELL,	Greenwich.	
C	ELIHU T. SANFORD,	Schenectady.	77 Union st.
C	GEORGE B. SAWTELLE,	Sidney, Me.	38 S.
S	GEORGE F. SAWYER,	West Kendall.	178 Union st.
†*C*	HENRY R. SCHWERIN,	New York.	
S	JOHN H. SERVISS,	Glen.	5 N.
†*C*	HENRY H. SHEPARD,	Brookfield, Io.	
C	ALSON I. SHERWOOD,	Ballston Spa.	
†*U*	HARVEY A. SMITH,	Enfield, N. H.	
C	WILLIAM H. SMITH,	Farmington, Conn.	21 S.
C	HORATIO N. SNOW,	Spraker's Basin.	42 S.
†*C*	GEORGE S. STEVENS,	Catskill.	
C	GEORGE M. STEWART,	Wales, Mass.	
†*S*	JOSEPH S. STORY,	Flatbush.	
C	EDWARD C. TAINTOR,	Buffalo.	13 S.
C	EDWARD P. TAYLOR,	Alton, Ill.	
†*S*	BENJAMIN L. TEMPLE,	Templeville, Md.	
†*C*	EDWARD TERRY,	Henderson, Ky.	
C	FRANK THOMPSON,	Ballston Spa.	37 N.
†*U*	DANIEL D. THURBER,	Pontiac, Mich.	
C	DAVID N. VANDERVEER,	Schenectady.	81 Ferry st.
†*C*	HENRY P. VOSBURGH,	Frankville.	
S	GERRIT D. VAN VRANKEN,	Clifton Park.	5 N.
†*C*	ALBERT VAN WAGNER,	Poughkeepsie.	
C	HOMER S. WATERBURY,	Schoharie.	9 S.
C	JOHN WRIGHT, JR.,	Wilmington, Del.	48 S.
C	JAMES YATES,	Chicago, Ill.	118 Liberty st.

JUNIOR CLASS.

	NAMES.	RESIDENCES.	ROOMS.
xS	George Ainslie,	Delhi.	15 N.
†*U*	James A. Allis,	Syracuse.	
U	Walter C. Anthony,	Greenham.	7 S.
U	Pliny W. Bartholomew,	Hermon.	30 S.
C	William H. Beal, Jr.,	Schenectady.	67 Liberty st.
C	George T. Bradshaw,	Princetown.	2 S.
†*S*	John S. Bradley,	Lee, Mass.	
S	Thomas W. Burnham,	Cleveland, Ohio.	45 N.
†*C*	Richard J. Bush,	San Francisco, Cal.	
C	Samuel W. Clason,	New Milford.	108 Liberty st.
†*C*	James D. Clyde,	Cherry Valley.	
S	Sidney T. Cornell,	Jonesville.	
†*S*	Henry A. Crary,	Knoxville.	
S	D. Starks Crumb,	Bloomfield, Mo.	2 S. Colon.
C	Elisha Curtiss,	Sandy Creek.	24 S.
C	Alexander Davidson,	Buffalo.	26 N.
C	James Davis, Jr.,	Albany.	35 N.
C	William F. Doig,	Bovina.	7 N.
**S*	Charles A. Dryer,	Hoboken, N. J.	
†*S*	Anson D. Fessenden,	Townsend, Mass.	
†*C*	James W. Fisher,	Newburgh.	
S	Benjamin D. Gifford,	Provincetown, Mass.	18 N.
U	Dwight Flower,	Fort Dodge, Io.	31 N.
C	Samuel H. Gleason,	Barnet, Vt.	
S	Walter N. Gourlay,	Hoboken, N. J.	173 Union st.
C	Henry Graham,	Wilna.	171 Union st.
†*C*	Jared Hasbrouck,	Kingston.	
C	Albert Heywood,	San Francisco, Cal.	53 Barrett st.
U	John A. Henderson,	Andes.	14 N.

	NAMES.	RESIDENCES.	ROOMS.
C	Bartholomew Higgins,	Waterford.	23 S.
C	Jacob M. Howard, Jr.,	Detroit, Mich.	
C	Alexander S. Hoyt,	West Milton.	62 Lafayette st.
C	Edward A. Judson,	Lansingburgh.	11 S.
†*C*	Archibald Kelly,	Johnstown.	
C	Samuel J. Koontz,	York Sulphur Springs.	26 S.
C	Phineas S. Lamb,	Fort Ann.	39 S.
C	Charles F. Lewis,	Schenectady.	
C	James O. Liebenau,	Lloyd.	27 S.
S	Charles W. Lind,	Porto Rico, W. I.	174 Union st.
C	Charles B. Loomis,	Buffalo.	42 N.
S	Archibald McIntyre,	Albany.	
C	Edward P. Magoun,	Hudson.	189 Union st.
†*C*	Edward J. Maxwell,	Amsterdam.	
xC	William H. Millham,	Charlton.	79 Liberty st.
C	William M. Murray,	Delhi.	
†*C*	John Nelson,	Poughkeepsie.	
U	Frederick M. Newman,	Albany.	45 N.
C	Charles J. Noyes,	Haverhill, Mass.	173 Union st.
C	Edward W. Paige,	Schenectady.	44 N.
S	Wm. Appleton Potter,	Philadelphia, Pa.	174 Union st.
C	Samuel F. Prentiss,	Montpelier, Vt.	
U	Robert D. Radcliffe,	Albany.	39 N.
C	T. Elder Ralston,	Indiana, Pa.	10 S.
C	William H. Reid,	Johnstown.	151 Union st.
†*C*	James H. Robinson,	Fairville.	
xC	William H. Sanborn,	Plattsburgh.	9 N.
S	Warren Schoonover,	Honesdale, Pa.	22 N.
S	George Scramling,	Oneonta.	47 S.
C	James L. Seward,	Cincinnati, Ohio.	10 S.
S	Charles M. Sheldon,	Amsterdam.	173 Union st.
C	Augustus Sherman,	New Baltimore.	6 S.
U	Brandt G. Smythe,	Newark, Ohio.	4 S. Colon.
†*S*	William L. Smith,	Newburgh.	
†*U*	John M. Stearns, Jr.,	Brooklyn.	
S	Theodore B. Stevens,	Cleveland, Ohio.	25 S.

	NAMES.	RESIDENCES.	ROOMS.
C	Walter M. Stewart,	Johnstown.	
C	Daniel M. Stimson,	Albany.	41 N.
C	Charles D. F. Steinfuhrer,	Schenectady.	22 North st.
C	Alonzo P. A. Strong,	Schenectady.	82 College st.
†*C*	John Tavenner,	Winchester, Va.	
C	Charles O. Thatcher,	Schenectady.	146 Union st.
S	Charles H. Tillinghaste,	New York city.	164 Union st.
C	Morris C. Tuthill,	Blooming Grove.	
C	Chauncy E. Van Allen,	West Perth.	3 Barrett st.
C	David Van Horne,	Glen.	62 Lafayette st.
†*C*	Marvin Wait,	Norwich, Conn.	
C	Samuel S. Wakeman,	Ballston Spa.	6 N.
xC	Zaremba Waldron,	Ballston Centre.	79 Liberty st.
C	Henry Ward,	Guilderland Centre.	6 N.
C	Jacob H. Wieting,	Middletown, Pa.	25 S.
U	Leander Willis,	Alden.	
S	George W. Wood,	Walden.	25 N.

SOPHOMORE CLASS.

	NAMES.	RESIDENCES.	ROOMS.
xC	William H. Albro,	Middleburgh.	20 S.
C	Elmer A. Allen,	Toledo, Ill.	23 Lafayette st.
C	Charles H. Bacon,	North Lansing.	32 N.
xC	Henry Bacon,	Sing Sing.	43 S.
U	George D. Bacon,	Lansing.	23 N.
C	Edwin S. Baldridge,	West Pawlet, Vt.	27 N.
C	Charles M. Ballantine,	Gloversville.	
C	Franklin W. Bartlett,	Towanda, Pa.	50 Barrett st.
C	James W. Blake,	Waterford.	139 Union st.
†*C*	Charles S. Brackenridge,	Fort Wayne, Ind.	
C	Clark Brooks,	Clifton Park.	45 S.
U	Edward Brown,	New York City.	
†*C*	George F. Brown,	Schenectady.	
†*C*	Arthur E. Chadsey,	Schenectady.	
C	Howard Cornell,	Hoosick Falls.	12 S.
C	Nathan G. Daggett,	Schenectady.	5 Front st.
xC	Thomas Davies,	Poughkeepsie.	47 N.
C	Edmund T. Davis,	Shiloh, N. J.	38 Barrett st.
C	Isaac Dox,	Wilson.	4 S.
U	Robert J. Gregg,	Peoria, Ill.	7 S.
C	John V. Griswold,	Quincy, Ill.	15 S.
C	Francis J. Hoag,	Charleston.	45 S.
xC	John M. Hughes,	Cleveland, O.	106 Romeyn st.
C	Marcus T. Hun,	Albany.	5 S.
C	George W. Knapp,	Buffalo.	26 N.
xS	Lucius D. Leffingwell,	Cleveland, O.	30 N.
C	De Witt C. Le Fevre,	Northville.	27 Barrett st.
C	Daniel N. Lockwood,	Buffalo.	47 S.

	NAMES.	RESIDENCES.	ROOMS.
C	Charles M. Lombard,	Elbridge.	8 S.
xS	Edward J. Lovett,	Palmyra.	179 Union st.
xS	William B. Lynn,	Carrollton, Ill.	10 N.
xS	Richard S. Lyon,	Cleveland, O.	30 N.
C	James L. Meredith,	Marshalltown, Pa.	
U	William H. Mickle,	Princetown.	
xC	James R. Monks,	Elmira.	46 S.
U	John V. C. Nellis,	Fort Plain.	
xS	David R. Paige, Jr.,	Painsville, O.	22 N.
C	John K. Paige,	Schenectady.	49 Washington av.
C	Robert Payne,	Fort Miller.	10 S.
†*C*	Charles H. Ripley,	Centre Rutland, Vt.	
C	David C. Robinson,	Elmira.	28 Greene st.
C	Lewis H. Rockwell,	Mariaville.	29 S.
nC	Leverett G. Romaine,	Albany.	168 Union st.
C	Stealy B. Rosseter,	Cohoes.	81 State st.
C	Edwin Russell,	Saratoga Springs.	9 N.
C	John R. Sanson,	Princetown.	23 S.
xC	Warren V. Sayre,	Wabash, Ind.	29 N.
xC	Erskine D. Scribner,	Middleburgh.	29 S.
xS	Lewis Sherman,	West Rupert, Vt.	175 Union st.
C	Freling H. Smith,	Chatham.	32 S.
C	Mortimer Smith,	Chatham.	32 S.
C	Henry Stoddard,	New Haven, Conn.	99 Union st.
U	George H. Sutton,	Bedford.	46 S.
‡*C*	Harvey D. Talcott,	Oswego.	
C	James B. Taylor,	Rupert, Vt.	27 N.
**C*	Abner B. W. Tenney,	West Concord, N. H.	
C	Smith Thompson,	Poughkeepsie.	47 N.
C	Vedder Van Dyck,	Schenectady.	52 Barrett st.
C	Henry C. Van Zandt,	Schenectady.	131 Front st.
C	Albert H. Veeder,	Fonda.	14 S.
C	James B. W. Wands,	Olean.	
U	Nathan P. Wells,	Johnstown.	48 N.
xS	Kennett Woodson,	Carrollton, Ill.	10 N.

FRESHMAN CLASS.

	NAMES.	RESIDENCES.	ROOMS.
C	John E. Ashe,	West Bloomfield.	23 N.
C	Joseph M. Benedict,	Utica.	24 N.
C	Fred. Blake,	Waterford.	151 Union st.
C	Edwin L. Brenton,	Wabash, Ind.	29 N.
C	Omar Brown,	Zanesfield, Ohio.	18 N.
C	Romeyn Bunn,	Amsterdam.	183 Union st.
C	Monroe M. Cady,	Great Barrington, Mass.	23 N.
C	John E. Clancy,	Schenectady.	92 Liberty st.
C	George H. Crumb,	Bloomfield, Mo.	2 S. Colon.
C	Robert Hathaway,	Tompkins.	N. Colon.
C	Henry C. Littlefield,	Albany.	12 N.
C	William Loucks,	New Scotland.	195 Union st.
C	James C. Miller,	West Galway.	13 Ferry st.
C	John M. Pearson,	Schenectady.	189 Union st.
C	Gove Porter,	Detroit, Mich.	18 S.
C	La Mott W. Rhodes,	Clayville.	28 N.
C	Thomas Rogers,	Morrisania.	5 N.
C	Thomas J. Sanson,	Duanesburgh.	15 Ferry st.
C	Geo. J. Schermerhorn,	Homer.	164 Union st.
C	Daniel Seymour,	Stillwater.	17 S.
C	Daniel L. Smith,	Mechanicsville.	12 N.
C	Grenville A. Tremain,	Albany.	5 S.
C	Edward Wemple,	Fultonville.	37 N.

STUDENTS OF CIVIL ENGINEERING.

NAMES.	RESIDENCES.	ROOMS.
Ezra T. Clark,	Bedford.	31 S.
Thomas H. Fearey,	Albany.	33 N.
Vincent M. Porter,	Niagara Falls.	149 State st.
Homer S. Waterbury,	Schoharie.	9 S.
John C. Baker,	Fort Miller.	28 S.
D. Starks Crumb,	Bloomfield, Mo.	2 S. Colon.
Walter N. Gourlay,	Hoboken, N. J.	173 Union st.
Foster Morss,	Red Falls.	30 S.
M. M. Skiff,	Savannah, Ga.	3 S. Colon.
Sidney Tuttle,	New York.	180 Union st.

STUDENTS

OF

ANALYTICAL CHEMISTRY.

NAMES.	RESIDENCES.	ROOMS.
CHARLES G. CLARK,	Troy.	124 Liberty st.
ROBERT M. FULLER,	Schenectady.	39 Ferry st.
FRANCIS HEERMANCE,	Kinderhook.	180 Union st.
A. OVERFIELD, JR.,	Marshall's Creek, Pa.	16 Laf. st.
WILLIAM A. POTTER,	Philadelphia, Pa.	174 Union st.
FRANCIS D. PUTMAN,	Schenectady.	
ROBERT D. RADCLIFFE,	Albany.	39 N.
JOHN B. ROBINSON,	Malden, Mass.	38 S.
HENRY C. SANBORN,	Plattsburgh.	82 College st.
DANIEL M. STIMSON,	Albany.	41 N.
CHARLES H. VAN PATTEN,	Schenectady.	

SUMMARY.

SENIORS,	97
JUNIORS,	82
SOPHOMORES,	63
FRESHMEN,	22
CIVIL ENGINEERING STUDENTS,	10
CHEMICAL STUDENTS,	11
	286
REGISTERED IN TWO COURSES,	10
TOTAL,	276

PRIZE SCHOLARSHIPS.

The Prize Scholarships endowed by Dr. NOTT, have been awarded to the following persons:

CLASS OF 1863.

EDWARD C. TAINTOR. Prepared under Rev. JOHN L. SEE, Buffalo.

CLASS OF 1864.

JAMES O. LIBENAU. Prepared by F. A. BROWN, A. B.

ALONZO P. A. STRONG. Prepared at UNION SCHOOL, Schenectady.

CLASS OF 1865.

CLARK BROOKS. Prepared at UNION SCHOOL, Schenectady.

DAVID C. ROBINSON. Prepared at UNION SCHOOL, Schenectady.

NOTT PRIZE PRIZES.

AWARDED AT COMMENCEMENT, 1862.

Gold Medals to DAVID C. ROBINSON, ... Elmira.

CLARK BROOKS, ... Charlton.

Of the Freshman Class.

BLATCHFORD ORATORICAL MEDALS.

AWARDED AT COMMENCEMENT, 1862.

First—RIDGLEY C. POWERS, ... Mecca, Ohio.

Second—THEODORE L. SCOTT, ... Waterford.

WARNER PRIZE.

AWARDED AT COMMENCEMENT, 1862.

EDWARD AUTEN, ... Princeville, Ill.

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TIME OF RINGING THE BELL.

FIRST TERM.	A. M.				P. M.			SECOND TERM.
COMMENCING FIRST MONDAY.	First Bell.	Prayer and Recitat. Bell.	Study Bell.	Recitation Bell.	Study Bell.	Recitation Bell.	Study Bell.	COMMENCING FIRST MONDAY.
First Week, . .	6 35	7 35	9 00	11 00	2 00	4 00	7 00	Twelfth Week.
Second Week, . .	6 35	7 35	9 00	11 00	1 55	3 55	7 00	Eleventh Week.
Third Week, . .	6 40	7 40	9 00	11 00	1 50	3 50	7 00	Tenth Week.
Fourth Week, . .	6 40	7 40	9 00	11 00	1 45	3 45	7 00	Ninth Week.
Fifth Week, . .	6 45	7 45	9 00	11 00	1 40	3 40	7 00	Eighth Week.
Sixth Week, . . .	6 45	7 45	9 00	11 00	1 35	3 35	7 00	Seventh Week.
Seventh Week, . .	6 50	7 50	9 00	11 00	1 30	3 30	7 00	Sixth Week.
Eighth Week, . .	6 50	7 50	9 00	11 00	1 20	3 20	7 00	Fifth Week.
Ninth Week, . .	6 55	7 55	9 00	11 00	1 15	3 15	7 00	Fourth Week.
Tenth Week, . . .	6 55	7 55	9 00	11 00	1 10	3 10	7 00	Third Week.
Eleventh Week, . .	7 00	8 00	9 00	11 00	1 05	3 05	7 00	Second Week.
Twelfth Week, . .	7 00	8 00	9 00	11 00	1 00	3 00	7 00	First Week.
THIRD TERM, . .	6 30	7 30	9 00	11 00	2 00	4 00	Early Candle Light.	THIRD TERM.